

1 UNITED STATES DISTRICT COURT
2 EASTERN DISTRICT OF NEW YORK

3 UNITED STATES OF AMERICA,

4 -against-

5 VITALY KORCHEVSKY and,
6 VLADISLAV KHALUPSKY

7 Defendants.

15-CR-381 (RJD)

United States Courthouse
Brooklyn, New York
June 18, 2018
10:00 a.m.

8 TRANSCRIPT OF CRIMINAL CAUSE FOR TRIAL
9 BEFORE THE HONORABLE RAYMOND J. DEARIE
UNITED STATES SENIOR DISTRICT JUDGE
BEFORE A JURY

10 APPEARANCES

For the Government:

RICHARD P. DONOGHUE, ESQ.
United States Attorney
Eastern District of New York
271 Cadman Plaza East
Brooklyn, New York 11201
BY: RICHARD M. TUCKER, ESQ.
JULIA NESTOR, ESQ.
Assistant United States Attorneys

15 For Defendant Korchevsky: SULLIVAN BRILL

115 Broadway, 17th Floor
New York, NY 10006
BY: STEVEN G. BRILL, ESQ.
JAMES L. HEALY, ESQ.

RACHEL BRILL, ESQ.
263 Domenech Avenue
San Juan, P.R. 00918

20 For Defendant Khalupsky: FEDERAL DEFENDERS OF NEW YORK

One Pierrepont Plaza
Brooklyn, NY 11201
BY: MILDRED WHALEN, ESQ.
LaKEYTRIA W. FELDER, ESQ.

23 Court Reporter:

Rivka Teich, CSR, RPR, RMR, FCRR
718-613-2268 RivkaTeich@gmail.com

24 Proceedings recorded by mechanical stenography. Transcript
25 produced by computer-aided transcription.

PROCEEDINGS

1 (In open court.)

2 THE COURTROOM DEPUTY: All Rise.

3 THE COURT: I was out of town over the weekend and I
4 haven't had a chance to study these letters and the
5 attachments that come with them. I certainly have a gist of
6 it. But I have a couple of questions.

7 First of all, with respect to the forgery of bank
8 accounts, is it not my recollection that Igor finally admitted
9 to doing just that at trial?

10 MS. WHALEN: Your Honor, I believe that he admitted
11 to forging those bank documents. He did not admit to having
12 sent them to an attorney in Latvia. And the position of the
13 Government that it was some kind of funny business and they
14 were the victims of loses of \$150,000, that still stands.

15 THE COURT: I'm focusing on his trial testimony. I
16 thought he admitted those series of letters of the exact same
17 amounts on different company stationary.

18 MS. WHALEN: If I could clarify. The documents we
19 showed him were in light of your Honor's ruling that we
20 couldn't bring in extrinsic evidence of the Latvian bank
21 fraud. So what we did is we found these other frauds.

22 THE COURT: Your Honor, did not rule. His Honor
23 said you could examine that on the Latvian matter on the issue
24 of credibility. All right. You certainly didn't proffer any
25 extrinsic evidence that I precluded. Let's keep the record

PROCEEDINGS

1 clear.

2 MS. WHALEN: What I'm trying to explain -- our
3 understanding was we weren't permitted to introduce extrinsic
4 evidence. While we were investigating the Latvian documents,
5 we found that fraudulent documents had created and sent to
6 other individuals that happened to be the same, of the same
7 month that the Latvian bank fraud was conducted. I believe
8 that Mr. --

9 THE COURT: They were different documents than the
10 ones that were the subject of cross-examination.

11 MS. WHALEN: What they were is, Mr. Dubovoy created
12 false documents for the same month, July 2013, where he
13 altered the numbers. He sent them to a realtor. He then sent
14 an exact copy of those that had been further altered in terms
15 of the account number and the account holder, and sent those
16 to a friend of his, that in the proffer he later acknowledged
17 to the Government was the owner of Everest Construction.

18 THE COURT: During his trial testimony, which is
19 what my focus is now, he acknowledged that those documents
20 were obviously not legitimate and they were prepared in
21 connection with the Latvian attempt to acquire the hotel.

22 MS. WHALEN: No, your Honor. I'm sorry. It clearly
23 wasn't clear.

24 There were three sets of documents that we
25 confronted him with. The first were the actual phony bank

PROCEEDINGS

1 records for July 2013. Those are the bank records that the
2 government in Latvia is claiming were forged. But the copies
3 that we have are the genuine copies, we don't have a copy of
4 the forgery.

5 The second documents that we showed the witness were
6 forgeries of that same month of bank statements but they were
7 sent to other individuals for other purposes not related to
8 the Latvian bank or the Latvian hotel transfer.

9 THE COURT: All right. So then he's interviewed and
10 he admits to the Government that he created false documents in
11 connection with the Latvian deal. And the other aspect of it
12 is that he owned additional companies that he did not
13 disclose. And his reasons for not disclosing, he said they
14 had no assets.

15 As your letter says, he was impeached at trial
16 regarding the forgeries. What else is it that want to do with
17 it? You want to bring out the fact of during the interview on
18 the 16th he admitted that he created false documents?

19 MS. WHALEN: Your Honor, I think that we --

20 THE COURT: One at a time, Mr. Brill, please.

21 MR. BRILL: Of course.

22 MS. WHALEN: If your Honor is not considering my
23 motion to strike his testimony --

24 THE COURT: It's rather extraordinary. Motion to
25 strike, much less a motion to preclude. I'm trying to get at

PROCEEDINGS

1 the hub of your --

2 MS. WHALEN: I guess what I want the Court to do in
3 the absolute minimum is to give a curative instruction.

4 We've drafted one that would say, "You heard
5 testimony from Igor Dubovoy as a witness for the Government.
6 And I'll instruct you that Mr. Dubovoy has lied and failed to
7 disclose information concerning a number of matters.

8 "First, Igor Dubovoy falsified dozens of documents
9 on numerous occasions to purchase real estate. This occurred
10 during the time frame of the conspiracy to commit wire fraud
11 and was charged within the District of New Jersey.

12 "Second, Igor Dubovoy failed to disclose a number of
13 bank accounts on the financial affidavit he completed as part
14 of his cooperation agreement and guilty plea.

15 "Third, Igor Dubovoy falsified bank records in an
16 attempt to purchase a Latvian hotel in 2013. He provided
17 these false documents to an attorney in Latvia in the attempt
18 to purchase the hotel. Any money he claims to have paid
19 toward this venture should be considered by you to be an
20 effort to complete this crime.

21 "I will instruct you further at the close of the
22 case on how to consider witnesses who have been impeached.
23 But at this point I instruct you consider any testimony you
24 have heard from Igor Dubovoy with extreme care."

25 Your Honor, if I could just add a little bit as to

PROCEEDINGS

1 why we think the more extraordinary remedy is required in this
2 case. The reason we think a more extraordinary remedy is
3 required is because it appears the Government did absolutely
4 nothing to follow up on the Latvian bank fraud claim. They
5 presented papers to the Court and to the defense trying to
6 preclude us from cross-examining about this incident. They
7 made it seem that there was no evidence out there, other than
8 the Latvian Government's claim that this fraud had taken
9 place. And that the defense cross-examination on this topic
10 would be considered harassment.

11 Your Honor, the Government got the Latvian claim in
12 January 2018. They appeared to simply have asked the
13 witnesses about it, and when the witnesses denied it they did
14 nothing further. The Boni bank records, and they are in
15 evidence now as Defendant's exhibit HH, show that on July 3rd,
16 exactly as stated in the Latvian bank account, money was
17 transferred between DBM and Boni.

18 THE COURT: I read your letter. Now let me ask you
19 a question, is there any authority for this?

20 MS. WHALEN: Your Honor, the authority I think -- I
21 think, your Honor, the authority is that the Government has
22 presented these witnesses as truthful. I don't have specific
23 authority in this circuit to strike the witness' testimony in
24 its entirety, but given the procedure of the Government in
25 this case to hide a specific incidents of money laundering

PROCEEDINGS

1 dead in the center of this money laundering conspiracy, the
2 efforts that the Government failed to take to follow up, and
3 then the presentation that they made with this witness talking
4 about his cooperation agreement, talking about if he lied it
5 would be taken away, the jury is going to be left, while they
6 recognize there is impeachment, they have been given no
7 further instruction, no further evidence to the extent of how
8 serious this is. How seriously it should be considered.

9 The Government is then going to present Arkadiy
10 Dubovoy and we believe he has the same problems in his case.
11 They are going to be able to sanitize his testimony. None of
12 us can have any confidence that what he will say is the truth.

13 Mr. Brill confronted Igor Dubovoy about lying on the
14 stand. And he told us that he wouldn't; but in fact, he
15 didn't disclose all of this.

16 THE COURT: I have your letter. I'm going to read
17 it more carefully. I'd like to see the proffer instruction.
18 It's rather extraordinary. I've never heard it from the
19 Court. Would I not be usurping the jury's instruction, not to
20 mention your own?

21 MS. WHALEN: In this instance a fraud is perpetrated
22 on this jury. This witness has been presented as a truthful
23 witness, your Honor. I don't think that can stand. I think
24 the professional --

25 THE COURT: The Government doesn't boast for the

PROCEEDINGS

1 truthfulnesses for the witnesses, of its witnesses. Their
2 obligation is to put testimony on that they understand is
3 truthful.

4 MS. WHALEN: But, your Honor, when they go through
5 the cooperation agreement and they go through these enormous
6 penalties that will proceed if this witness is not truthful,
7 and then the witness is shown not to be truthful, the jury
8 needs to be instructed on that.

9 THE COURT: They are going to be instructed on it,
10 how to consider the testimony of such people. Why isn't this
11 your testimony? Why can't you bring this all out in the
12 normal course of cross-examination?

13 MS. WHALEN: Are we going to be allowed to bring out
14 the fact that the day after he testified they spoke to him and
15 elicited additional information?

16 THE COURT: Why not?

17 MS. WHALEN: We can put that 302 into evidence?

18 THE COURT: I haven't seen the 302, but why not?
19 Why not bring out the fact that the day, after he admitted
20 that he prepared phony documents. It's all about credibility.
21 I'm not standing in your way on that issue. I'm asking a very
22 simple legal question, is there any precedent for this sort of
23 thing? I've never heard of it, to be honest with you.

24 MS. WHALEN: I think that Professional Rule of
25 Conduct 3 --

PROCEEDINGS

1 THE COURT: You're accusing the Government -- you're
2 not only accusing the Government of being slipshod of their
3 handling of the Latvian matter, you're accusing the Government
4 of perpetrating a fraud of the Court.

5 MS. WHALEN: I'm not arguing that the Government is
6 perpetrating a fraud. But that the interview they conducted
7 after the fact makes it clear that Mr. Dubovoy was not
8 transparent in all of his discussions with them. That he lied
9 in his proffers and withheld information. And I think they
10 have an obligation to notify the Court as to that. And I
11 think that since the jury in this case is the tribunal, that
12 the jury needs to be notified as well.

13 THE COURT: What he admitted to in the interview, in
14 the post-testimony interview, is the essentially what he
15 admitted to during his trial testimony.

16 MS. WHALEN: He admitted that he had done it dozens
17 of times, not just once, which we didn't know about that, it
18 wasn't presented to the jury.

19 THE COURT: He did testify -- I have to look at it
20 more carefully, he did testify that he done it over and over
21 again.

22 MS. WHALEN: I don't believe that he did.

23 THE COURT: Your colleague brought out a series of
24 letters, one after the other.

25 MS. WHALEN: Two letters and one actual bank

PROCEEDINGS

1 account -- two e-mails and one actual bank account.

2 THE COURT: I have more confidence in your
3 recollection than mine.

4 MS. WHALEN: I don't believe -- it doesn't rise to
5 the dozens of times that he had admitted to the Government.

6 The second thing that he did not admit is the fact
7 that after he forged the documents he provided them to an
8 attorney in Latvia. The Government on their direct has left
9 an impression that Igor was somehow a victim in this case in
10 losing \$150,000; that's not what it is.

11 THE COURT: For what it's worth, and it's not worth
12 anything, when he left the witness stand I didn't have that
13 impression, but that's a different matter.

14 Well, I'm sorry, I guess I'm an old-fashioned guy.
15 I want to look at this more carefully. I think my gut tells
16 me the thing to do is bring old Igor back and let you have it
17 at.

18 MS. WHALEN: No, your Honor. No one can trust that
19 what he says is the truth.

20 THE COURT: Is that my function?

21 MS. WHALEN: Judge --

22 THE COURT: A lot of what he said is the truth,
23 obviously, because both, all sides, brought it out. A lot of
24 what he said is the truth.

25 MS. WHALEN: Judge, my concern is that when a

PROCEEDINGS

1 witness has perjured himself and when a witness has
2 deliberately withheld information from the Government, putting
3 him back on the stand adds some air of credibility to him,
4 aura of creditability that he's somehow worthy of listening to
5 again. I don't believe that that's appropriate.

6 If the Court is not going to strike his testimony
7 and the Court is unhappy with my curative instruction, I think
8 that some curative instruction should be given. But recalling
9 him, putting him back on the stand, making it look like he
10 understands his oath to tell the truth, I do not want that
11 remedy, your Honor.

12 THE COURT: I don't understand. You just summarized
13 in rather impressive fashion all his failings and you want to
14 make sure the jury understands them. Why can't you do that
15 through his testimony his cross-examination?

16 MS. WHALEN: Is the Government doing to be permitted
17 to redirect him?

18 THE COURT: What are they going to do?

19 MS. WHALEN: I don't know, but any attempt to
20 sanitize this is not an acknowledgment of what he's done.

21 This is a case where there have been millions of
22 dollars transferred from bank accounts and there is no record
23 of where that money has gone. It appears that there are shell
24 companies all over the world that have received these assets.
25 So for these individuals to come in and lie and say, okay,

PROCEEDINGS

1 maybe I do a couple of years in jail but I've got millions to
2 get me through is a real issue in this case.

3 I think it goes to the fact of whether these people
4 made a calculated business decision as to what they were going
5 to do and what they were going to have after they completed
6 this prosecution. I think it goes to their credibility. I
7 don't think they can be trusted.

8 THE COURT: It may very well, I'm not arguing that
9 point. What I'm saying is, what are the outer limits of my
10 authority? You haven't given me the authority. In fairness
11 to you, I know you regard this as a serious issue, I want to
12 continue this more carefully. We'll continue the discussion.

13 I have another matter, and I'll give you time to
14 respond. Another matter that just came up. Ms. Mulqueen told
15 me just before I took the bench that one of the jurors, juror
16 seven, a gentleman with a lengthy hair, salt and pepper,
17 called her this morning -- and Ellie, you'll stop me if I
18 misstate this.

19 COURTROOM DEPUTY: I will.

20 THE COURT: Said that he wondered whether or not he
21 could have an opportunity to speak to the judge before trial
22 today. And Ellie probing a little bit said, What is the
23 nature of it? He said, Well, you recall the judge told us not
24 to discuss the case at all. Ellie said, Yes. And he said,
25 Well, I'd like to discuss the case. And she said, Is there

PROCEEDINGS

1 anything you can tell me about it? He paused and said, Well,
2 actually I'm the person who said something in the jury room.

3 That's it, right, Ellie?

4 COURTROOM DEPUTY: Correct.

5 THE COURT: There you have it. I'll give you time
6 to come to contemplate that development. I'm not going to
7 delay the starting trial if everybody is here, but at some
8 point we're going to have to speak to this chap, speak to what
9 he's got. Ellie advised to him not to discuss the case. She
10 asked him, did he understand the instruction, he assured that
11 he did. She told him going forward no further discussions, he
12 said he wouldn't. There you have it.

13 Let me go back to studying these and we'll continue
14 this discussion later in the day.

15 I take it Igor is not about to get on a plane for
16 Katmandu or anything of the sort?

17 MR. TUCKER: Mr. Dubovoy is back in Atlanta, but can
18 be back in New York quickly if needed. If we learn today that
19 he's going to be recalled, he can be back in New York by
20 tomorrow.

21 THE COURT: I'm not going to make any decisions
22 until I feel I fully consumed this. Relax for a few minutes.
23 I'll be back once we have our jury.

24 (Brief recess.)

25 THE COURT: Have a seat. I think what we'll, do

PROCEEDINGS

1 unless you have better thought, is speak to this chap at the
2 break. The question I have for you is, would you prefer that
3 I interview him privately with the reporter of course, or is
4 it your preference that I interview him here in open court?

5 My personal experience is jurors are a little more
6 forthcoming in the comfort of an office, but I certainly
7 appreciate the fact that you rather see it in live-time his
8 responses. Obviously we would have to follow up and I intend
9 to do that at the break.

10 One thing we know for sure, I haven't yet completed
11 reviewing these documents. We know for sure if the Government
12 is aware one of its witnesses has given false testimony, it
13 has an obligation to do something about it. With that
14 thought, we'll get underway, to be continued.

15 MR. TUCKER: Your Honor, should I put my witness on
16 the stand?

17 THE COURT: I think we may be down a juror. You can
18 bring your witness in.

19 (Whereupon, the witness resumes the stand.)

20 THE COURT: The witness, Arkadiy Dubovoy, is he
21 going to need an interpreter?

22 MS. NESTOR: Yes, your Honor.

23 (Jury enters.)

24 THE COURT: Good morning, folks. Please be seated,
25 everyone. Welcome back.

SAMAD SHAHRANI - DIRECT - MR. TUCKER

1 We are ready for our next witness, Mr. Tucker.

2 MR. TUCKER: Your Honor, this is a continuation of
3 the testimony of Agent Shahrani.

4 THE COURT: Yes, indeed. I remind the witness
5 having previously been sworn you remain under oath.

6 THE WITNESS: Yes, your Honor.

7 (Witness takes the witness stand.)

8 SAMAD SHAHRANI, called as a witness, having been previously
9 first duly sworn/affirmed, was examined and testified as
10 follows:

11 MR. TUCKER: May I inquire, your Honor?

12 THE COURT: Yes, sir.

13 DIRECT EXAMINATION

14 BY MR. TUCKER: :

15 Q Good morning, Agent Shahrani.

16 A Good morning.

17 Q Before we ended the day on Thursday you were describing
18 your forensic review of the images of those two computers that
19 were seized in the Ukraine in November 2012; is that right?

20 A That's correct.

21 Q Just to orient the jury and the Court, as you testified
22 about image 4A, you'll be referring to 3500SS2, which is
23 before you?

24 A That's correct.

25 Q Please remind us, did you see any evidence on image 4A

SAMAD SHAHRANI - DIRECT - MR. TUCKER

1 that that computer had been used to run a program called
2 SQLMap?

3 A I did.

4 Q S-Q-L Map; is that right?

5 A Yes. We pronounce it sequel for convenience, but it's
6 SQL.

7 Q Before we broke you were explaining SQL. Can you explain
8 what SQLMap is?

9 A As I said SQL is a language for constructing a database.
10 SQLMap is a tool that is used to map out the structure of
11 databases. It's a hacking tool. Basically it can enumerate a
12 database, so describe the structure, the database, the names.
13 If you think of a database as a Excel spreadsheet, the names,
14 columns, the rows, the individual pages inside of the
15 workbook, for lack of a better term. Then SQLMap can inject
16 commands. So it can interact with the database and try to get
17 data out of the database.

18 Q Is that technique sometimes called SQL injection?

19 A It is.

20 Q What indications on image 4A did you see that that
21 computer had been used to run SQLmap?

22 A The reverse SQLmap log files.

23 Q Explain to the jury what a SQLmap log file is?

24 A Sure. When you're using a variety of programs most of
25 them leave log files. A log file is a record of what an

SAMAD SHAHRANI - DIRECT - MR. TUCKER

1 individual program did. In the case of hacking tools, or
2 penetration tools, things like that usually they will contain
3 data about what the program found, what it was told to do,
4 what it found, then just logs that. The reason you keep those
5 log files is if you didn't have them you wouldn't know what a
6 program did. It would be like asking a question and not
7 listening to the answer. The log files record the answers to
8 the questions that the SQLmap tool received.

9 Q Do those log files include, among other things, the dates
10 and times that the SQLmap tool is used and information about
11 data that was extracted, if any data was extracted?

12 A Typically, yes.

13 Q Did you see indications on image 4A that SQLmap had been
14 used to target the newswire, PR Newswire.

15 A I did.

16 Q Please tell the jury what you saw.

17 A So I believe I'll be referring to page 18.

18 Q Of 3500?

19 A Yes, 3500SS2.

20 Q Tell the jury what you saw.

21 A So basically there were indications that connections had
22 been made from the SQLmap tool to media.prnewswire.com,
23 amongst other addresses.

24 Q So it's clear, Agent Shahrani, as you're referring to SS2
25 did you author that report?

SAMAD SHAHRANI - DIRECT - MR. TUCKER

1 A No, I didn't author this report, but I verified the
2 results.

3 Q So you personally witnessed the facts in evidence that
4 you're testifying about?

5 A That's correct.

6 Q What was the date -- what were the dates associated with
7 the SQLmap sessions targeting the PR Newswire domain?

8 A So the two, initially it looks like it was May 30 of 2012
9 and then May 31 of 2012.

10 Q Did you see any evidence of information or data being
11 downloaded from PR Newswire systems?

12 A Yes, there were artifacts in Firefox that indicated that
13 specific files had been downloaded.

14 Q Can explain, what is Firefox?

15 A So Firefox is the Mozilla web browser. Just like there
16 is a variety of word processing programs, there are a variety
17 of web browsers. There is also Firefox, which is made by
18 Mozilla; people are familiar with Internet Explorer; Chrome
19 which is made by Google, a variety of other flavors.

20 Q In this instance you saw evidence that Firefox had been
21 used to take data from the PR Newswire domain?

22 A There was, there had been a download.

23 Q Did you see indications in those log files that that
24 computer image 4A had been used to target Business Wire using
25 that SQLmap software you just described?

SAMAD SHAHRANI - DIRECT - MR. TUCKER

1 A I did.

2 Q What did you see?

3 A On, it looks like, March 16 and March 24 there was
4 indications of connection to R.B2HM.com, which I previously
5 mentioned in the testimony was associated with Business Wire.

6 Q For the record, Agent Shahrani, March 16 and March 24 of
7 what year?

8 A Sorry, of 2012.

9 Q Did you see any other references to the Newswire
10 companies in your review of that image 4A?

11 A I did.

12 Q What did you see?

13 A There were other accesses including Marketwired.

14 Q Did you review the contents of a folder called trading?

15 A I did.

16 Q That folder, trading, was that in that file hierarchy
17 that we looked at on Friday?

18 A Yes, by default part of the hierarchy.

19 Q Do you recall what the file above trading was the parent
20 file for trading?

21 MS. WHALEN: Your Honor, is 3500SS2 in evidence?

22 THE COURT: I don't believe it is.

23 MR. TUCKER: I'm not offering it, your Honor. The
24 witness is using it to refresh his recollection.

25 MS. WHALEN: I think the witness is reading. He's

SAMAD SHAHRANI - DIRECT - MR. TUCKER

1 pointing to pages and going through the documents. If it
2 refreshes his recollection, he can review it and testify to
3 it. I think right now he's reading from a document not in
4 evidence.

5 THE COURT: Who prepared this document?

6 THE WITNESS: This document was prepared by Mandiant
7 Corporation.

8 THE COURT: SS --

9 MR. TUCKER: 2, your Honor.

10 THE COURT: 2. And what did you do once you
11 received it?

12 THE WITNESS: So I received the report, I went
13 through the records that it refers to, and verified that the
14 information was accurate.

15 THE COURT: I see. I'll hear the objection. How
16 should we proceed?

17 MR. TUCKER: I can continue to move on. I think the
18 witness -- I think I can continue to move on, your Honor.

19 THE COURT: You can continue to move on. Why don't
20 you just move on.

21 MR. TUCKER: I'll move on, your Honor.

22 THE COURT: But if you're going to refer to the
23 document for any reason let us know. It's apparent at times,
24 but let us know if you need to refer to that document to
25 refresh your recollection.

SAMAD SHAHRANI - DIRECT - MR. TUCKER

1 THE WITNESS: Yes, your Honor.

2 THE COURT: Go ahead, sir.

3 BY MR. TUCKER: :

4 Q Agent Shahrani, you testified a moment ago that you saw
5 folders that referred to the different news wires from your
6 own personal review?

7 A That's correct.

8 Q Tell the jury what you saw.

9 A So basically, like I said, the folders contained names
10 after a specific directory, the directories structures
11 reflected the names of sites that had been accessed.

12 Q Agent Shahrani, did you personally take your own notes
13 about those different folders found in image 4A?

14 A I did.

15 Q Is that 3500SS7 that's before you?

16 A I did.

17 MR. TUCKER: The witness will refer to that in the
18 course of his testimony, with the Court's permission?

19 THE COURT: That's your notes?

20 THE WITNESS: Yes, your Honor.

21 THE COURT: In the process of verifying the
22 information?

23 THE WITNESS: That's correct, your Honor.

24 THE COURT: SS7. Let's us know if you're going to
25 refer to it.

SAMAD SHAHRANI - DIRECT - MR. TUCKER

1 MR. TUCKER: Thank you, your Honor.

2 Just for the witness, Ms. Mulqueen?

3 COURTROOM DEPUTY: Certainly.

4 MR. TUCKER: Showing the witness what is marked for
5 identification as Government's Exhibit 408.

6 COURTROOM DEPUTY: 408?

7 MR. TUCKER: Correct, and 409.

8 BY MR. TUCKER: :

9 Q Do you recognize those documents?

10 A I do.

11 Q Where did you find them?

12 A They were found in a directory Business Wire.com and they
13 appear to be output of SQLmap and other tools being run.

14 Q So it's clear, that was the Business Wire.com folder on
15 image 4A?

16 A That's correct.

17 Q Printouts of files?

18 A These are copies of text files that were on the system.

19 Q Did you review 408 and 409 prior to your testimony today?

20 A I did.

21 Q Are they fair and accurate copies of two of the files
22 found in that Business Wire.com folder?

23 A Yes.

24 MR. TUCKER: The Government moves 408 and 409 in
25 evidence.

SAMAD SHAHRANI - DIRECT - MR. TUCKER

1 THE COURT: Any objection?

2 MR. HEALY: No objection, your Honor.

3 THE COURT: Received 408 and 409.

4 (Government Exhibit 408 & 409, was received in
5 evidence.)

6 MR. TUCKER: May we publish?

7 THE COURT: Go ahead.

8 BY MR. TUCKER:

9 Q Look at 408, Agent Shahrani, can you tell us what is the
10 title of this file?

11 A The file is hack.txt.

12 Q So it's clear, did you name this file hack.txt?

13 A No, that's the file in the system.

14 Q So this is the name of the file as saved in that Business
15 Wire.com folder on image 4A?

16 A Yes.

17 Q What is this document, generally, now that the jury can
18 see it?

19 A As I mentioned early, one of the purposes of SQLmap was
20 to enumerate a database, that's basically what this is, as you
21 can see. It lists the available databases then the structure
22 of it. So the databases of Business Wire own, then it lists
23 out the tables. If you think of, like I said, the database,
24 then there are a number of tables inside of it. Those tables
25 contain information and you can reference that data using SQL

SAMAD SHAHRANI - DIRECT - MR. TUCKER

1 commands.

2 Q Certain of the data in Government's Exhibit 408, does
3 that out from a program like SQLmap?

4 A Yes.

5 Q Now are there also references in this document to what
6 appear to be Business Wire user login credentials and
7 passwords?

8 A There are.

9 Q Turning to page six of 408 -- page 9, first. Can I ask
10 you to read this text, please, that I'm highlighting in my
11 copy.

12 A Operator:X1CK2lgb8KvVg:nextphazenew.

13 Q Showing you what is in evidence now as Government's
14 Exhibit 409. Directing your attention to this text here, what
15 is this text here?

16 A It says admins.

17 Q What is an admins?

18 A Typically admin is a abbreviation for administrator.
19 Administrator is someone who has high-level access to a
20 computer system or to a computer network.

21 Q There are a number of names then at Business Wire.com
22 based on the formatting of the different names, what are
23 those?

24 A It appears to be e-mail address or login then followed by
25 a colon, then a looks like a password. For the last four

SAMAD SHAHRANI - DIRECT - MR. TUCKER

1 there, the long alphanumeric stream, that could be different
2 kind of identifier, but the end of it thereafter the last
3 colon does appear to be passwords.

4 Q Also directing your attention to the top, what does it
5 say here?

6 A It says from the Business Wire.com site, it says then
7 create password page.

8 Q Read this highlighted page.

9 A Old pass singsing, with no spaces. The new pass is
10 singsing333!.

11 Q Agent Shahrani, in your -- I'm going to show the witness,
12 and just the witness, what is marked for identification as
13 Government's Exhibit 411 and 444. Do you see those, agent
14 Shahrani?

15 A I do.

16 Q What are those?

17 A Those are output from the Marketwired.com directory.

18 Q So it's clear, are those files that you found in a folder
19 called Marketwired.com on image 4A?

20 A That's correct.

21 Q Are they fair and accurate copies of those specific files
22 that you found on there?

23 A These are pronounced of text files.

24 MR. TUCKER: The Government moves 411 and 444 into
25 evidence.

SAMAD SHAHRANI - DIRECT - MR. TUCKER

1 THE COURT: Any objection?

2 MR. HEALY: No objection.

3 MS. WHALEN: No objection.

4 THE COURT: Received.

5 (Government Exhibit 411 & 444, was received in
6 evidence.)

7 MR. TUCKER: May we publish, your Honor?

8 THE COURT: Yes, sir.

9 BY MR. TUCKER:

10 Q Now that the jury can see, what was the name of this file
11 in evidence, 411?

12 A FTP_users.text.

13 Q What is FTP?

14 A The file transfer protocol, a long-standing method for
15 transmitting files from one system to another on the Internet.

16 Q Agent Shahrani, I neglected to clarify this. I'm going
17 to show what you is in evidence as 409, what is the file name
18 of this second document that was found in the Business
19 Wire.com file?

20 A Hack2.txt.

21 Q So you found hack and hack2.txt in that Business Wire
22 folder?

23 A That's correct.

24 Q Back to Government's Exhibit 411. This was again found
25 in the Marketwired document folder on 4A?

SAMAD SHAHRANI - DIRECT - MR. TUCKER

1 A Correct.

2 Q Directing your attention here to this first series of
3 digits, what is that?

4 A That is an IP address and IPv4. There are two kinds of
5 IP addresses out there. This is the more common version that
6 people see. There is also a longer version, IPv6.

7 Q What is an IP address?

8 A IP address is Internet protocol address. Everything that
9 connects to the Internet has to have an address so you send
10 data to and from it. There are a lot of different ways to
11 think of it, like a mailbox or a phone number. And basically
12 when a device is connected to the Internet, it says this is my
13 IP address, if you need to send me data, send data to me at
14 this address. Then when you send a query to a website, the
15 server knows where to send the data back to.

16 Also so you can talk to the servers. We all do
17 things by Google.com. But when you type that in, your
18 computer doesn't actually go to Google.com, it doesn't go to
19 the word Google.com. It looks up the IP address then it goes
20 to that. A lot of this happens behind the scenes.

21 Q Agent Shahrani, after that IP address you testified
22 about, appear the words distribution:passw0rd, but the zero in
23 the word password is a zero; is that right?

24 A Yes.

25 Q Did you see a number of other entries that appear to be

SAMAD SHAHRANI - DIRECT - MR. TUCKER

1 passwords?

2 A Yes. As you look through this you can see a number of
3 different, whether combinations of usernames and passwords,
4 some of them are very similar, indicating maybe there was an
5 iteration. Like people typically, when they are forced to
6 change their password, it's fairly common to make finer
7 changes to the password.

8 Q You saw a references to Marketwired as well?

9 A That's correct.

10 Q Showing what you is in evidence as Government's Exhibit
11 444. What is the title of this file, Agent Shahrani?

12 A The title is employees.txt.

13 Q The same file name that you found in that Marketwired.com
14 file on image 4A?

15 A That's correct.

16 Q This document includes references to e-mail addresses
17 associated with Marketwired; is that right?

18 A That's correct.

19 Q Does it also include what looks to be passwords:
20 changeme and Aloha28?

21 A A collection of e-mail addresses or usernames and
22 potentially phone numbers, then what appear to be passwords.

23 Q For the record, Agent Shahrani, this is a 14-page
24 document; is that right?

25 A I believe so, yes, there are hundreds of records.

SAMAD SHAHRANI - DIRECT - MR. TUCKER

1 Q So fair to say this is just a sample of login credentials
2 and user IDs associated with the different newswires?

3 A Yes. It depends on the size of the company. Without
4 knowing how many employees or how many accounts are set up,
5 it's at least a portion and potentially all of them.

6 Q This is a sample of the documents you found on image 4A?

7 A Yes.

8 Q There were others?

9 A Yes.

10 MR. TUCKER: Ms. Mulqueen, for just the witness.

11 COURTROOM DEPUTY: Just the witness.

12 Q What is marked for identification as Government's Exhibit
13 413, do you recognize this document?

14 A Yes, I do.

15 Q What is this document?

16 A This is from the PR Newswire directory.

17 Q There was a PR Newswire image on 4A?

18 A Yes.

19 Q There were directories on PR Newswire.com, Business
20 Wire.com and Marketwired.com?

21 A Yes.

22 Q Is it a fair and accurate copy of one of those files in
23 PR Newswire.com's directory?

24 A Yes.

25 MR. TUCKER: We move 413 into evidence.

SAMAD SHAHRANI - DIRECT - MR. TUCKER

1 THE COURT: Any objection?

2 MR. HEALY: No objection.

3 MS. WHALEN: No objection.

4 THE COURT: It is received.

5 (Government Exhibit 413, was received in evidence.)

6 MR. TUCKER: May we publish it?

7 THE COURT: Yes.

8 BY MR. TUCKER:

9 Q So now that the jury can see what is in evidence as
10 Government's Exhibit 413, what is the title of this file?

11 A So the title is SSH_passwords.txt.

12 Q What is SSH agent Shahrani?

13 A SSH is the secure show. When you're using a command line
14 interface, like commonly it's a secure way of logging into a
15 server. So if you're SSHing into this, say if you're SSHing
16 into a server, you're connecting to the server, if you're
17 making an SSH connection you're, unless it's a tech company
18 for instance, it's usually a pretty high-level user, usually
19 it's an administrator to the server.

20 Q If a person has SSH login credentials, to what extent to
21 could they potentially access to the system?

22 A Depending on whose SSH credentials, they could have
23 anywhere from guest access all the way up to administrative
24 privileges and the ability to do whatever they wanted.

25 Q This last entry is Jwatkins: it looks like h4ppyj0y, the

SAMAD SHAHRANI - DIRECT - MR. TUCKER

1 A is a four, and the O is a zero; is that right?

2 A Yes, with an exclamation point at the end.

3 Q Thank you.

4 MR. TUCKER: Just for the witness, Ms. Mulqueen.

5 COURTROOM DEPUTY: For the witness only.

6 Q Showing the witness what is marked for identification
7 Government's Exhibit 407T, do you recognize this document,
8 Agent Shahrani?

9 A I do.

10 Q What is it?

11 A This is a transcript of Skype messages that's been
12 translated that were located on item 4A.

13 Q First after all, what is Skype?

14 A Skype is a chat tool. It can be used both for -- more
15 commonly people think of it as a video conferencing tool, but
16 it has a text chat feature as well. Originally I believe it
17 was an independent company but was bought by Microsoft years
18 ago. Skype and Skype for business.

19 Q You said this came from image 4A?

20 A That's correct.

21 Q Are the chats set forth here in the chat message column
22 and the other associated data to the left and in the column
23 chat ID a fair and accurate copy of the Skype log from that
24 image 4A?

25 A Yes.

SAMAD SHAHRANI - DIRECT - MR. TUCKER

1 Q There is also a column that says translation, was that on
2 the original computer?

3 A No, I believe that was done by the FBI.

4 Q So it's clear, Agent Shahrani, is this each and every
5 Skype message that you observed on image 4A?

6 A No, this is just a sampling.

7 MR. TUCKER: We move to admit 407T.

8 THE COURT: Any objection?

9 MR. HEALY: No objection.

10 MS. WHALEN: No, your Honor.

11 THE COURT: Received in evidence.

12 (Government Exhibit 407T, was received in evidence.)

13 MR. TUCKER: May I publish?

14 Q Now that the jury can see, this is a log of chat messages
15 or exchanges from image 4A?

16 A That's correct.

17 Q Based on your review of this particular log of Skype
18 messages, were you able to identify which username was
19 associated with the actual user of image 4A?

20 A Yes.

21 Q What was that?

22 A Vaiobro, V-A-I-O-B-R-O

23 Q What is Vaiobro?

24 A Vaiobro is a brand name for Sony computer series. VAIO
25 is commonly laptops, I believe they may also have a desktop

SAMAD SHAHRANI - DIRECT - MR. TUCKER

1 line as well.

2 Q Agent Shahrani, have you reviewed the contents of 407T?

3 A I have.

4 Q Generally, in these Skype messages did you observe
5 discussions about computer hacking specifically hacking the
6 newswire companies?

7 A I did.

8 Q I'm going to ask you to read a few portions of this
9 document. Could you read this first message that appears on
10 407T on the first page?

11 A From Vaiobro. It says, forward the lists to me. I'm
12 curious.

13 Q That was sent on June 19, 2012; is that right?

14 A That's correct.

15 Q According to the logs?

16 A Right, that's according to the log.

17 Q Would you continue reading this next message, please?

18 A Also from Vaiobro, since I'm not aware of anything of
19 importance except for Business
20 Wire/PRnewswire/Marketwired/Globenewswire.

21 That's with slashes between each of the companies.

22 Q Is Globenewswire another news company like Business Wire,
23 PRnewsire and Marketwired?

24 A It is.

25 Q On to the second page of 407T, would you read this

SAMAD SHAHRANI - DIRECT - MR. TUCKER

1 highlighted text also from June 19, 2012?

2 A Utkatra, we'll called that Utkatra, says, is there really
3 a chance to hack them?

4 Then Vaioebro says, PR or globe are a possibility.
5 Business Wire has been shut.

6 Q Third page of Government's Exhibit 407T, this is a
7 message that was sent on June 26, 2012; is that right, this
8 last message?

9 A Yes.

10 Q I'm going to start here at the end of page two, read that
11 highlighted text?

12 A This is from Vaioebro. It says, I'm trying to restore PR
13 Newswire.

14 Q Then there is a pasted additional discussion into that
15 message?

16 A Yes, it appears to be somebody copy and pasted one
17 message into another.

18 Q Read for the record the portions of text that I'm
19 highlighting Agent Shahrani?

20 A This is again from Vaioebro. It says -- this was
21 copy/pasted from the hackerM, didn't you hack
22 Globenewswire.com and Business Wire.com?

23 Then a subsequent message, hello. I need access to
24 the database or the editorial of Globenewswire.com, Business
25 Wire.com, payout one link for 40K, next one is 100K plus

SAMAD SHAHRANI - DIRECT - MR. TUCKER

1 interest further on or a large one-time lump sum. So is it
2 just those two sites that are of interest? Basically yes.

3 Q Now turning your attention -- that was sent on 8/3/12,
4 correct?

5 A Yes.

6 Q Turning to this next message from 9/8/2012, September 8,
7 2012, can you read that?

8 A From Vaiobro, wouldn't you like to finish up Business
9 Wire PR Newswire? If it holds on, then it's possible we can
10 make 200-300K every season.

11 Q Moving on to the fourth page of 407T, turning to a
12 message that was sent on October 10, 2012, who sent this
13 message?

14 A This is Vaiobro again.

15 Q The image of user 4A?

16 A Yes.

17 Q Read that.

18 A As to PR, I got several e-mail addresses of their
19 staffers. I'm hacking their hosting right now.

20 Q Can you read the next entry here?

21 A There is a number of shells as well as SQL data inside
22 the hosting.

23 Q On that same date Vaiobro received a message, what are
24 you busy with; is that right?

25 A Yes, from user Eminazazov.

SAMAD SHAHRANI - DIRECT - MR. TUCKER

1 Q How do Vaiobro respond?

2 A Vaiobro says, hacking PR Newswire.com.

3 Q So it's clear, Agent Shahrani, the majority of these
4 messages that you were reading they were originally not in
5 English?

6 A It appears to be Cyrillic, I'm not sure what specific
7 dialect.

8 Q Page seven of 19, I'm going to ask you to read these from
9 October 12, 2012, that I'm highlighting for you now, who sent
10 these messages?

11 A Again these are from Vaiobro. The messages is, PR
12 Newswire, a pal of mine came to see me today. He said he had
13 already made around 30K before the reporting season starts.
14 It's regarding Marketwired, with PR Newswire can you make ten
15 times that much.

16 Q Moving on to nine of 19, Government's Exhibit 407T. This
17 is a message from October 17, 2012, Jackpot_1721; is that
18 right?

19 A That's correct.

20 Q Read the highlighted text here, again the translation in
21 is English?

22 A Now is there an opportunity to search through the tickers
23 as the news appears one to two days before, but the admin
24 panel does not retain it so it leaves.

25 Q How does Vaiobro respond on that same date?

SAMAD SHAHRANI - DIRECT - MR. TUCKER

1 A Vaioebro says, I have already shown you how to look for
2 it.

3 Q Turning your attention to page 12 of 407T, this is a
4 message on October 26, 2012. Vaioebro, could you read the
5 highlighted text for the record?

6 A It says, I got the new name for the PRN group and the key
7 for the group. I'm only missing a user account.

8 Q I want to turn your attention to image 6B, that was the
9 other image that you examined; is that right?

10 A That's correct.

11 Q What kind of operating system was 6B running?

12 A Windows 7 personal computer.

13 Q Did that particular computer have a name?

14 A Yes, it's called war, W-A-R.

15 Q Did you find any tools that you would associate with
16 hacking or penetration testing on that computer?

17 A I did.

18 Q Did those tools include SQLmap?

19 A They did.

20 Q Did you see any SQLmap log files on image 6B?

21 A There were.

22 Q Were any associated with Business Wire domains?

23 A Yes.

24 Q Tell the jury.

25 A If can I refer to the notes here?

SAMAD SHAHRANI - DIRECT - MR. TUCKER

1 Q So Agent Shahrani, for the record are you referring to
2 3500SS3?

3 A Yes.

4 Q Did you author that report?

5 A No.

6 Q What is that report?

7 A A Mandiant report that was commissioned I believe by the
8 Secret Service to look into these drives. Then I went through
9 and verified the contents of what I'm going to speak about.

10 Q Turning your attention to Business Wire, did you see any
11 SQLmap log files associated with Business Wire?

12 A I did.

13 Q What were the dates of those files?

14 A There were a number of files basically beginning on
15 March 19, 2012, moving all the way through to dates around the
16 31st, March 31, 2012.

17 Q I neglected to ask you, Agent Shahrani, on 6B, on your
18 forensic review, were you able to determine the period of time
19 that computer was in use?

20 A Yes, the last system activity for this device was October
21 late, October 2012, I think the 19th.

22 Q Did you also see SQLmap log files associated with
23 Marketwired domains?

24 A Yes.

25 Q What were the dates of those log wires creations?

SAMAD SHAHRANI - DIRECT - MR. TUCKER

1 A I'll just refer to this.

2 Q So SS3?

3 A Yes, this is SS3. You're saying Marketwired?

4 Q Yes.

5 A So for Marketwired there is logs, a number of logs here,
6 Marketwired looks like it begins around May 2, 2012.

7 Q So it's clear, Agent Shahrani, when you're seeing log
8 files and associated dates, what is the significant of those
9 dates?

10 A Typically with those dates it's saying that's the date,
11 that the day on the computer system that the logs were
12 generated.

13 Q Does that mean based on that analysis, that was the date
14 that the program was run, that SQLmap was run?

15 A Assuming that the date on the computer is correct, right,
16 because the system draws this from the computer's date, then
17 that would be the date that these files were, these SQLmap
18 commands, were run, then these files were created as a result
19 of SQLmap.

20 Q Does you see evidence of data being extracted using
21 SQLmap?

22 A Yes.

23 MR. TUCKER: Just for the witness.

24 COURTROOM DEPUTY: Just the witness.

25 Q Showing the witness what is marked for identification

SAMAD SHAHRANI - DIRECT - MR. TUCKER

1 Government's Exhibit 427, do you recognize this document,
2 agent Shahrani?

3 A I do.

4 Q What is it generally?

5 A It's a file called employee.CSV, Common Separated Values.
6 So typically if you are copying data out of a database, not
7 from one database to another database, but just to kind of
8 have it as a human readable format, it's export data is a
9 Common Separate Value file. If you look at this in a text
10 file you basically see all the data you're seeing here, but
11 delineated by columns separating it out.

12 Q Is this document a fair and accurate copy of that file
13 employee.CSV that you found -- withdrawn.

14 Where did you find this particular image?

15 A This was found on the work computer.

16 Q Image 6b?

17 A Correct.

18 (Continued on next page.)
19
20
21
22
23
24
25

SHAHRANI - DIRECT - MR. TUCKER

1 DIRECT EXAMINATION

2 BY MR. TUCKER::

3 Q Is this is a fair and accurate copy, if you were to print
4 it out, of the document that you found on that war computer in
5 image 6B?

6 A Yes. To get this kind of layout you'd have to load into
7 something like Excel or some viewer that would display it
8 properly, but, yes, this is a fair and accurate copy.

9 Q The data that it contains is the same.

10 A It should be, yes.

11 MR. TUCKER: Your Honor, the government moves to
12 admit Government Exhibit 427.

13 THE COURT: Any objection.

14 MR. HEALY: No objection.

15 MS. WHALEN: No objection.

16 THE COURT: 427 received.

17 (Government Exhibit 427, was received in evidence.)

18 MR. TUCKER: May we publish?

19 THE COURT: Go ahead.

20 (Exhibit published.)

21 BY MR. TUCKER::

22 Q I'll zoom in here a little bit, Agent Shahrani. So one
23 of these columns is called email; is that right? I'm trying
24 to highlight it here.

25 A I think it's EM_email. It's hard to read.

SHAHRANI - DIRECT - MR. TUCKER

1 Q Zoom in even more here.

2 A EM_email, yes.

3 Q Among the entries in that column are there references to
4 a market wire domain?

5 A Yes, there are several.

6 Q Did you also see associated employee information and
7 passwords for those entries?

8 A Yes. There is a variety of information stored, but if
9 you move there's a field called EM_password, and then also
10 other fields EM_name, underscore first -- underscore name --
11 excuse me. EM_name_first and then another field called
12 EM_name_last.

13 Q And, again, this was data that you extracted from image
14 6B, that computer called war; is that right?

15 A That's correct.

16 Q Did you observe any documents that appeared to be press
17 releases, specifically market wire press releases on image 6B?

18 A I did.

19 Q How many approximately?

20 A Dozens.

21 Q I'm showing you what's been marked for identification,
22 just for the witness, Ms. Mulqueen.

23 THE COURTROOM DEPUTY: Just for the witness.

24 Q As Government Exhibit 405.

25 THE COURTROOM DEPUTY: 405.

SHAHRANI - DIRECT - MR. TUCKER

1 BY MR. TUCKER::

2 Q Is this one of those documents that appear to be a press
3 release?

4 A It is.

5 Q And again, where did you find this?

6 A This was found on the war system.

7 Q That's image 6B?

8 A Correct.

9 Q Is that a fair and accurate copy of the files extracted
10 from image 6B?

11 A Yes.

12 MR. TUCKER: Your Honor, the government moves to
13 admit Government Exhibit 405 into evidence.

14 THE COURT: 405. Any objection?

15 MR. HEALY: No objection.

16 MS. WHALEN: No, Your Honor.

17 THE COURT: Received.

18 (Government Exhibit 405, was received in evidence.)

19 MR. TUCKER: May we publish, Your Honor?

20 THE COURT: Yes.

21 (Exhibit published.)

22 BY MR. TUCKER::

23 Q Agent Shahrani, you testified this was one of dozens
24 press releases from image 6B; is that right?

25 A Yes.

SHAHRANI - DIRECT - MR. TUCKER

1 Q What's the headline here?

2 A TIBCO software reports Q2 non-GAAP, which is an
3 accounting term, EPS grows 24 percent to 26 cents.

4 Q Agent Shahrani, at the bottom of this document there is
5 some text, what is that?

6 A Right. So that's the file name.

7 Q This was the file name of this particular document as
8 extracted from image 6B?

9 A That's correct.

10 Q Now, Agent Shahrani, the press releases that you observed
11 on image 6B, in what format were they stored?

12 A Most of them were in .rar files.

13 Q Is that .R-A-R?

14 A Right.

15 Q What's the .rar file?

16 A So it's kind of a running theme, it's yet another format.
17 So in this case it's most similar to what people probably are
18 familiar with as zip files. It's a compressed file format.
19 So there are, again, of variety of different compression
20 algorithms that can be used, they generate a variety of
21 different file names, some are better at compressing say
22 video, others are better at compressing text or other content.
23 In this case the person chose to make it a .rar file. I don't
24 know why but it's a fairly common compression algorithm.

25 Q Are you familiar with a program call WinZip?

SHAHRANI - DIRECT - MR. TUCKER

1 A I am.

2 Q Could WinZip be used to unpack or unzip a .rar file?

3 A Certainly.

4 Q I'm going to show you what's in evidence as Government
5 Exhibit 323.

6 Agent Shahrani, I'm going to direct your attention
7 here to this icon that appears in the bottom of the system
8 tray. Is that icon familiar to you?

9 A Yes, it appears to be the WinZip icon for Windows.

10 Q So it's clear, this WinZip icon could be used to open a
11 .rar file; is that right?

12 A Sure. That icon suggests that WinZip is open on that
13 computer and then that program would be able to create or open
14 a .rar file.

15 Q Agent Shahrani, did you see any chat logs on that image
16 6B, the war computer?

17 A I did.

18 MR. TUCKER: Just for the witness, Ms. Mulqueen.

19 THE COURTROOM DEPUTY: Witness only.

20 BY MR. TUCKER::

21 Q I'm showing the witness what's been marked for
22 identification as Government Exhibit 406T.

23 Do you recognize that document Agent Shahrani?

24 A I do.

25 Q What is it generally?

SHAHRANI - DIRECT - MR. TUCKER

1 A So these are excerpts of chat logs. You can see
2 timestamp sender, and the original it's written in Cyrillic
3 alphabet, and then the translation into English is on the far
4 right.

5 Q Are these fair and accurate copies of excerpts of chat
6 logs that you personally observed on image 6B?

7 A Yes.

8 MR. TUCKER: Your Honor, the government moves to
9 admit Government Exhibit 406T in evidence.

10 THE COURT: 406T, any objection?

11 MR. HEALY: No objection.

12 MS. WHALEN: No, Your Honor.

13 THE COURT: Thank you, Counsel. Received.

14 (Government Exhibit 406T, was received in evidence.)

15 MR. TUCKER: May we publish, Your Honor?

16 THE COURT: You may.

17 MR. TUCKER: Thank you.

18 (Exhibit published.)

19 THE WITNESS: Yes.

20 Q Agent Shahrani, so the jury can see what you were
21 starting to explain, this is the timestamps for the different
22 chats.

23 A Correct, as recorded by the chat file.

24 Q This wasn't Skype, right?

25 A No, this was not Skype.

SHAHRANI - DIRECT - MR. TUCKER

1 Q This was a different chat platform?

2 A Correct.

3 Q I'm going to turn your attention to certain excerpts
4 here.

5 On the second page of this document, would you read
6 the highlighted text here, the English translation, Agent
7 Shahrani?

8 A Sure. It says HTTP://glomosome, so
9 G-L-O-M-O-S-O-M-E.Business Wire.com and then a slash question
10 mark ID equals eight. It says: Got this one. Here is the
11 admin.

12 And then the same HTTP://glomosome.Business
13 Wire.com/admin/index.php. It says: It's on the secure server
14 no, but still plus something else.

15 Q That message, that series of messages were sent on
16 February 27th, 2012?

17 A Yes.

18 Q And, by the way, so it's clear, Agent Shahrani, these
19 entries say to and from and the username here is N dash dash
20 dash; is that right?

21 A Yes.

22 Q That N dash dash dash, that was the user of 6B, according
23 to these logs?

24 A According to the logs.

25 Q Turning your attention to the fourth page of 406T. I'm

SHAHRANI - DIRECT - MR. TUCKER

1 going to ask you read these series of messages from
2 March 27th, 2012. I'm going to highlight the text here, Agent
3 Shahrani, just bear with me for a moment.

4 Would you read that text for the jury, please.

5 A When you get back here write to me right away, there are
6 several problems. The first and largest is that PR is fucked
7 up. They detected the module and removed all our shit there.
8 They took away that temporary server. I haven't gone on to
9 the new one yet, I'm waiting. This happened on the 13th.

10 The second problem, your guys were detected, they
11 were trading with very big money and there was a lot of fuss
12 about them, about how it's not the season and when it was the
13 season they traded.

14 Q Again, those messages were sent from the user of 6B on
15 March 27th, 2012?

16 A Correct.

17 Q Turning your attention to the next page, there are a
18 series of messages to the user of 6B on that same date. Would
19 you read the highlighted text, please, for the jury.

20 A Sure. It says: And find out and also that shell there
21 see about raising privileges. Also there is an admin account
22 for biz on the main site.

23 Q Agent Shahrani, did you see any forensic evidence that
24 that image 6B, that computer 6B had connectivity to the IP
25 address 94.100.218.42?

SHAHRANI - DIRECT - MR. TUCKER

1 A I did.

2 Q We'll refer to that as the 42 IP address going forward?

3 A Okay.

4 Q What did you see?

5 A There were logs and records that were recovered from the
6 system that indicated or that had that IP address present in
7 them.

8 Q If I could just show the witness --

9 THE COURTROOM DEPUTY: Witness only.

10 Q -- what have been marked for identification as Government
11 Exhibits, I'm going to show you a series, Agent Shahrani, 435,
12 431, 432, 433, and 434.

13 A Okay.

14 Q Do you recognize these documents generally, Agent
15 Shahrani?

16 A I do.

17 Q Are these fair and accurate copies of files that you
18 extracted from image 6B?

19 A They are.

20 MR. TUCKER: Your Honor, the government --

21 THE COURT: I didn't hear the very last part of your
22 question from image?

23 MR. TUCKER: 6B, Your Honor.

24 THE COURT: 6B.

25 MR. TUCKER: I apologize.

SHAHRANI - DIRECT - MR. TUCKER

1 A Yes, they are.

2 MR. TUCKER: Your Honor, the government moves to
3 admit Government's Exhibits 432, 433, 434, and 435 into
4 evidence.

5 THE COURT: Not 431?

6 MR. TUCKER: And 431, Your Honor. Thank you.

7 THE COURT: Any objection?

8 MR. HEALY: No objection.

9 MS. WHALEN: No objection.

10 THE COURT: They are received.

11 (Government Exhibit 431, 432, 433, 434, and 435,
12 were received in evidence.)

13 MR. TUCKER: Thank you, Your Honor. May we publish?

14 THE COURT: Go ahead.

15 (Exhibit published.)

16 Q Turning your attention to what's now in evidence as 435,
17 Government Exhibit 435.

18 A All right.

19 Q You testified that there is evidence linking image 6B to
20 the IP address 9410218.42; is that right?

21 A That's correct.

22 Q I'm highlighting that particular IP address there. Is
23 that right, Agent Shahrani?

24 A Yes, that's correct.

25 Q This came from a file called Exploit; is that right?

SHAHRANI - DIRECT - MR. TUCKER

1 A That's correct.

2 Q Please explain to the jury the significance of the IP
3 address appearing here in Government's Exhibit 435?

4 A So that address appearing there it says the L Host, which
5 is the local host. This output is from a tool called
6 Metasploit, M-E-T-A-S-P-L-O-I-T, all one word. From --
7 actually I think the Armitage front-end, like the graphical
8 image interface. And that's Armitage, A-R-M-I-T-A-G-E, I
9 believe.

10 So basically the system is configured to use that as
11 the local address.

12 Q Let's take a step back. First of all, what is
13 Metasploit?

14 A Metasploit is one of the probably most popular, if not
15 the most popular, penetration testing/hacking tool that's out
16 there. It's -- the reason it's called Metasploit is it
17 basically has just a huge variety a meta, a variety of
18 exploits, hence the name Metasploit that can be used to attack
19 a number of different systems in a number of different ways.
20 So it's kind of like Swiss Army knife. It's got a variety of
21 different tools you can use. It can do port scanning, which
22 is basically mapping out computers, it can then find an
23 vulnerability, like identifying systems that have
24 vulnerability, then exploit the system and then provide
25 reports.

SHAHRANI - DIRECT - MR. TUCKER

1 Q So is Metasploit like SQLmap in that it can be a
2 penetration testing tool?

3 A Yeah. Like SQL map is much more limited in terms of just
4 kind of focusing on SQL databases, whereas Metasploit can
5 target a much broad array of targets.

6 Q So is this information, among other things, log data
7 associated with the use of that Metasploit tool?

8 A It is.

9 Q And that again is from image 6B?

10 A That's correct.

11 Q Now, please explain what it means, what this particular
12 entry means Set L Host with that 42 IP address.

13 A Right. So basically you're saying that's the local host.
14 The data should be coming back or you should be communicating
15 with that host. That is the -- when the Metasploit is running
16 when it's going out, there might be a remote host, a target,
17 but then it should be communicating back to the local host.
18 Now that may not necessarily be the computer, the attacker's
19 computer it might be a computer that they control like a
20 different server, but they're basically saying I control this
21 or this is an IP address that you should be talking back to.

22 Q Right. So let me ask you a couple of questions about
23 that. First, is the local host chosen by the user of that
24 Metasploit software?

25 A Yeah, that's something that you set.

SHAHRANI - DIRECT - MR. TUCKER

1 Q You were explaining a moment ago that this may not be a
2 true IP; is that right?

3 A Not necessarily -- it doesn't -- I'm sorry, semantics.

4 So it is a true IP, but it may not necessarily be the
5 attacker's home or the IP address where they physically are.

6 In some cases you will run a tool like this and you'll have it
7 communicate it right back to you, right? If I'm the

8 administrator of the system or perhaps not a very good hacker,
9 you might have it send the data right back to you, but that's

10 traceable, right. So in a lot of cases you will set the

11 system up so there's some level of deniability, this is what

12 we refer to as a proxy, so there is basically someone between

13 you. Instead of me walking into the store and stealing

14 something and handing it right over to the person that had me

15 steal it, I use a cutout. There is a server or one or more

16 servers between them and me.

17 Q So that allows the user to conceal their actual IP
18 address?

19 A Yes.

20 Q By the way, Agent Shahrani, when you use a hotspot, a
21 mobile hotspot do you get an IP address assigned when you turn
22 on a hotspot?

23 A Yes, normally, like I said earlier, if you're connecting
24 to the Internet with any kind of device, your device has to
25 have an IP address, there may be several IP addresses between

SHAHRANI - DIRECT - MR. TUCKER

1 it. If you're using a hotspot, typically you're getting
2 assigned an IP address from whatever cellular tower or
3 communication system you're talking to.

4 Q So that IP address would be different from, say, one's
5 home IP if they were logging in through, you know, a usual
6 cable modem or something like that?

7 A Sure. If you have an IP address, like I said, these IP
8 addresses are assigned by whoever is giving you Internet
9 access. So if your Internet access is from your home cable
10 system, that's going to be one IP address, but then if you
11 use, say, your cell phone, not connected to your wireless at
12 the house, you just use your cell phone on Verizon or whatever
13 network to go to a different -- or if you go to a web page,
14 even though you're physically at your house, those two
15 different devices, your home computer and your phone would
16 have two different addresses.

17 Q Agent Shahrani, did you also see evidence linking that
18 image 6B to the email address warninggp@gmail.com?

19 A I did.

20 Q I'm going show you first what's in evidence now as
21 Government's Exhibit 431. Again, this was a file that you
22 found on image 6B?

23 A Yes, but I should note that here it's called
24 gitconfig.txt, so that it's readable, right? We had to make
25 some minor file name changes. On the system it was actually

SHAHRANI - DIRECT - MR. TUCKER

1 called .gitconfig, but the content is the same.

2 Q The point of putting it into a text file was so it could
3 be printed and marked as an exhibit?

4 A Yes. Basically the way the system was configured before,
5 if you don't change the extension in Windows like that
6 typically it doesn't recognize that as a text file.

7 Q The email address here, just for the record?

8 A The email address is warning, W-A-R-N-I-N-G, and the
9 letter G and the letter P @gmail.com.

10 Q What is git or github, Agent Shahrani?

11 A So git is hard to explain. So when you're working on
12 software, just like -- when you're working on software you
13 need to be able to keep track of how many different versions
14 of a piece of software you have, right? You're changing the
15 code. Some of those -- so sometimes if it's just you, it's
16 not really hard to do what's called version control, right?
17 I'm the only working on it so it's easy for me to track and I
18 remember what I did yesterday, I remember what I did two days
19 ago, no big deal. If you're working with two or more people,
20 or let's say you're a company like Microsoft and you've got
21 thousands of people working on a piece of code, you need to
22 have what's called a code management system and git is
23 basically that. It's a open source freeware kind of system
24 that you can use to basically manage your software.

25 So you will have a username, you can set up a

SHAHRANI - DIRECT - MR. TUCKER

1 username for it, you can log into it, so if I make a change
2 you can track it. So if you set up git, you create what's
3 called a repo, a repository, and I apologize for the names, I
4 don't make them up, this is industry standard so, so you make
5 a repository and then into that repository people can make
6 push and pull requests so they can basically say, okay, I want
7 to check out a copy of this data, make some changes and then I
8 can put my changes back in. It's basically just a software
9 development and tracking platform.

10 Q So just to be clear, would you associate the use of git
11 with individuals who have some experience and expertise in
12 writing computer code?

13 A Yeah, it's especially recently. I mean it's an industry
14 standard now, like git is a pretty common tool, but, yeah,
15 it's not something that the average person would use. It's
16 something that people that are programmers or have some
17 familiarity with programming languages would be interested in.
18 It's not of much use to anybody else.

19 Q Showing you what's in evidence as Government Exhibit 432.
20 This file is called TheLog; is that right?

21 A Yes, here it's called TheLog. I think -- yeah, I think
22 it was originally called TheLog.txt as well.

23 Q And what is it?

24 A It's just -- it's a log file like a github log file.

25 Q It's associated with github, right --

SHAHRANI - DIRECT - MR. TUCKER

1 A Yes.

2 Q -- what you were just describing?

3 A Yes. Just so I'm clear. There's two separate things.
4 There's git, and then there's github, which is -- which uses
5 git. So github is like a website that kind of lets a lot of
6 these repositories talk to each other. You can have a git
7 repository that doesn't use github, but lots of people use
8 github because it lets you trade code back and forth, right?
9 If you're a programmer there's a better than average chance
10 that somebody's already solved a problem that you're looking
11 at and so you can go to github, take a piece of somebody's
12 code, use it in your project if you needed to.

13 Q Turning to your attention to page 11 of that document, is
14 there a reference in this github log to that email address you
15 were testifying about earlier, warninggp@gmail.com?

16 A There is, yeah. You can see basically in the log here
17 where the user.email value -- user.email.value was set to
18 warninggp@gmail.com.

19 Q Showing you what's in evidence as Government Exhibit 433.
20 This was a file called License; is that right?

21 A Yes. But I believe on the system it was actually called
22 License.log.

23 Q What was this file?

24 A It looks like a Metasploit license keep or license log.
25 You can see about eight lines down it says, license status

SHAHRANI - DIRECT - MR. TUCKER

1 activation, okay. User warninggp@gmail.com. And it says,
2 Metasploit community.

3 Q And Metasploit that was that suite of software you
4 described like a Swiss Army knife a little while ago?

5 A Right. Metasploit is a very common hacking and pen
6 testing tool.

7 Q I'm showing you what's in evidence as Government
8 Exhibit 434. What is this document generally?

9 A So this is the output of a file -- so here it's basically
10 listed as Mozilla_history.XLSX, but it's actually output from
11 a file called Places.SQLite.

12 Q What is the significance of that?

13 A So it's basically just Mozilla history. This is the way
14 that Mozilla, the web browser stores some of the activity that
15 you participated in, sites you visited, things you've done.
16 It's in something called the SQLite, which, surprise, is
17 SQL-based. Basically it's a different flavor of SQL. It's
18 just how Mozilla tends to store stuff locally.

19 And in this case what it is -- the output here is
20 information it gathered, basically what we say is cached when
21 somebody was using Mozilla. So you use your web browser your
22 computer typically goes out to whatever site you want, gets
23 the information it needs to display the images, right,
24 CNN.com, all the photographs and the text, things like that,
25 and usually the web browser does what's called caching and

SHAHRANI - DIRECT - MR. TUCKER

1 stores some of that stuff locally.

2 You can clear the cache, but you don't have a whole
3 lot of control about what the system does or doesn't cache.
4 So basically when you visit a website, the browser will cache
5 what it wants to cache and it wouldn't be something that would
6 be obvious to you.

7 Q Did this particular entry from the cache reference that
8 email address, warninggp@gmail.com?

9 A Right. So what you can see here is basically somebody
10 went to mail dot-- sorry, I didn't mean to put an arrow there.
11 You can see that somebody went to mail.Google.com, so Gmail,
12 and there's some emails that came in, you know, learn how to
13 use Metasploit community edition, warninggp@gmail.com.
14 Another one says verify your email address.

15 THE COURT: Little slower, please.

16 A Sorry. It says: Learn how to use Metasploit community
17 edition, which we saw in the earlier exhibit, and then it says
18 in the email address warninggp@gmail.com, then another request
19 to verify their email address and a number of other emails
20 that appear to be associated with the email address
21 warninggp@gmail.com.

22 Q There's an entry for, pretty Kiev girls at
23 warninggp@gmail.com?

24 A Right. The structure of that is it's a little hard to
25 tell because it looks like there might be some characters that

SHAHRANI - DIRECT - MR. TUCKER

1 were in there they were in a different alphabet that this
2 system doesn't display, that's why some of those look unusual.
3 But, primarily, it looks like what you're looking at is a
4 subject of an email and then the recipient.

5 So the subject was, you know, verify your email
6 address, and the recipient was warninggp@gmail.com.

7 Q Just so it's clear, Agent Shahrani, these documents we're
8 look at, these are instances on image 6B that show or suggest
9 that the user used the email address warninggp@gmail.com?

10 A Right. What this basically suggests is somebody that had
11 access to that email account logged into that account on this
12 computer and in so doing using webmail and in so doing it left
13 these artifacts behind.

14 Q Agent Shahrani, did you also conduct some forensic review
15 of images of computers that were seized from the defendant,
16 Vitaly Korchevsky's house on the day of his arrest on
17 August 10, 2015?

18 A I did.

19 Q How did that process work generally?

20 A Pretty much the same. There were images that were taken
21 of the systems and I reviewed them.

22 Q I apologize I think I misspoke, defendant Korchevsky
23 arrested on August 11th, 2015; is that right?

24 A I believe so. I believe the images were taken during a
25 search of the residence.

SHAHRANI - DIRECT - MR. TUCKER

1 Q You weren't there for --

2 A No --

3 Q -- that particular search?

4 A -- no, I wasn't. That was conducted, I think, by our
5 Computer Analysis Response Team, CART.

6 Q Did you subsequently review the images that were taken?

7 A I did.

8 Q What software did you use to conduct that review?

9 A FTK.

10 THE COURT: Sorry.

11 THE WITNESS: Oh, sorry, FTK, the Forensic Toolkit.

12 BY MR. TUCKER::

13 Q That's some of the same software that you told the jury
14 about on Thursday?

15 A Right, the same style of software. I'm not sure if it
16 was the exact same version, but...

17 Q May I just show the witness, Ms. Mulqueen, what's been
18 marked for identification as Government's Exhibit 424.

19 THE COURTROOM DEPUTY: Witness only.

20 Q Do you recognize this document, Agent Shahrani?

21 A I do.

22 Q What is it?

23 A So there is basically -- there was basically, like we
24 said with cache images, right, with cached data, this was a
25 cached email.

SHAHRANI - DIRECT - MR. TUCKER

1 Q And where was this image found?

2 A It was found -- I'm referring to my notes.

3 Q Which notes are you referring to?

4 A Sorry. So this is 3500SS-7.

5 Q Thank you.

6 A So this was found on -- this is 424, correct?

7 Q Correct.

8 A Yes. This was found on a image of a Dell computer.

9 Q Is this a fair and accurate copy of that fragment that
10 was found on that Dell computer that you personally saw in
11 your FTK review?

12 A Basically, just so you understand, the way that this
13 stuff is found on the systems is -- so this was I believe a
14 .HTM file and so it's basically a HTML code, right. So HTML
15 is what most web pages are written in, so depending on the
16 browser that you look at it in, it will look a little bit
17 different, like what gets displayed might change a little bit,
18 but in terms of this representing an accurate rendering of
19 what you would get if you look at it now, yes. If you were
20 looking at it through, you know, the webmail or something
21 there might be more things -- you can see there are images
22 that are missing with the question marks and things like that,
23 but, yes, it's accurate.

24 MR. TUCKER: Your Honor, the government moves to
25 admit Government's Exhibit 424.

SHAHRANI - DIRECT - MR. TUCKER

1 THE COURT: 424. Any objection?

2 MR. HEALY: No objection, Your Honor.

3 THE COURT: Received.

4 (Government Exhibit 424, was received in evidence.)

5 MR. TUCKER: May we publish, Your Honor?

6 THE COURT: Yes.

7 (Exhibit published.)

8 BY MR. TUCKER::

9 Q So now that the jury can see, Agent Shahrani, you
10 indicated the data missing, can you just explain so the jury
11 can see what you mean by that?

12 A Yes. Like I said, this is an HTM -- it's a HTML file,
13 right, so if you looked at just the raw data it would be very
14 difficult to read as a human. So what this is is that this is
15 basically what that HTML file looks like when you look at it
16 through a web browser, but because this is excerpted from a
17 webmail interface and the computer that we looked at it on
18 wasn't connected to the Internet, there are certain things
19 that are missing. Like in this particular case you can see
20 it's displaying question marks where there would be some sort
21 of image, a logo, something like that. But in terms of the
22 substantive content, the text, it's accurate.

23 Q What's the email address I just highlighted on this
24 document that was extracted from that Dell image file?

25 A Dubovoy1, that's D-U-B-O-V-O-Y, and then the number

SHAHRANI - DIRECT - MR. TUCKER

1 1@gmail.com.

2 Q Looking at the second page, can you read this text from
3 that same exhibit?

4 A Sure. It says Bill To: Igor Dubovoy, 6240 Crested Moss
5 Drive, Alpharetta, Georgia, 30004, United States. Then there
6 is a phone number (678) 665-7771.

7 Q What is this document generally, Agent Shahrani, or what
8 does it appear to be?

9 A It appears to be from receipt from Microsoft for buying
10 Office365.

11 Q What's Office365?

12 A Office365 is a -- I guess you can go both ways. It's
13 basically the latest version of Microsoft Office. I think
14 it's web-based as well as something that you can download onto
15 your home computer.

16 MR. TUCKER: Ms. Mulqueen, just for witness.

17 THE COURTROOM DEPUTY: Witness only.

18 Q I'm showing the witness what have been marked for
19 identification as Government's Exhibit 418 --

20 A Okay.

21 Q -- and 426.

22 Do you recognize these documents, Agent Shahrani?

23 A I do.

24 Q Where did you find these?

25 A So these were taken from SC4, which was an image of a --

SHAHRANI - DIRECT - MR. TUCKER

1 I'm sorry, I'm referring again to SS7. This is a Lenovo
2 laptop that was imaged during that same search I referenced.

3 Q The Lenovo laptop that was imaged during the search of
4 defendant Vitaly Korchevsky's residence?

5 A That's correct.

6 Q Are these fair and accurate copies of the data, certain
7 data found on that image SC4?

8 A Yes. Again, with the same caveats since it's the webmail
9 interface there are some things that aren't displayed properly
10 but in terms of the text content, yes.

11 MR. TUCKER: Your Honor, the government moves to
12 admit Government's Exhibit 418 and 426 and their corresponding
13 translations 418T and 426T in evidence.

14 THE COURT: Any objection?

15 MR. BRILL: No objection.

16 THE COURT: They're received.

17 (Government Exhibit 418T and 426T, were received in
18 evidence.)

19 MR. TUCKER: May I publish, Your Honor?

20 THE COURT: Go ahead.

21 (Exhibit published.)

22 BY MR. TUCKER::

23 Q Looking now at what's in evidence as Government
24 Exhibit 418, this document is obviously not in English, but is
25 there a reference to particular email address here?

SHAHRANI - DIRECT - MR. TUCKER

1 A Right. You can see a reference to the email address
2 VMARKEN, V-M-A-R-K-E-N@BK.ru.

3 Q Now looking at 418T, the English translation of that
4 document, I'm going to turn your attention to really where it
5 says, your computer has incorrect local time installed which
6 is why your email interface is displayed incorrectly. We
7 strongly recommend that you set the clock.

8 Did I read that right?

9 A That's correct.

10 Q Is there a reference here to that email address,
11 VMARKEN@BK.RU?

12 A There is.

13 Q Now that the jury can see it, please explain what they're
14 looking at here?

15 A Sure. As I said before, because of the way this is being
16 displayed, the content is stored because it's an artifact,
17 some things aren't being displayed properly here.

18 So when you're accessing webmail, something like
19 Gmail or Yahoo email or something like that, there is a lot of
20 stuff happening in the background that you don't see. There's
21 kind of -- there's probably like a basic HTM, but a lot of the
22 contents that you're seeing, the emails, your inbox, things
23 like that, that's usually generated by some other kind of
24 scripting language. Typically it's something like JavaScript.

25 So what you're seeing here is basically portions of

SHAHRANI - DIRECT - MR. TUCKER

1 that JavaScript, portions of things that got downloaded with
2 this file. And when we try to view it in our forensic
3 software or whatever browser this was opened in, that script
4 in the background looked around and realizing something was
5 wrong and through up an error message. If you were looking at
6 this properly, that is on the actual webmail system, you
7 wouldn't see that.

8 Q Just so it's clear, Agent Shahrani, what is webmail?

9 A Right, so webmail is --

10 THE COURT: Give me a just a second. Ms. Brill, are
11 you all right?

12 MS. BRILL: I'm trying to be. Thank you, Your
13 Honor. Maybe one more sip of water.

14 THE COURT: Maybe one more sip, maybe not.

15 If you need a break just wave. We're going to take
16 a break in 10 minutes unless you need one now.

17 MS. BRILL: I think it worked. Thank you, Your
18 Honor.

19 THE COURT: Okay. I'm sorry. Go ahead.

20 BY MR. TUCKER::

21 Q What's webmail, Agent Shahrani?

22 A Webmail is basically a web-based email system. Most
23 people today probably are more familiar with webmail than the
24 traditional versions of email, but in a very short summary of
25 it: You have a couple of different systems you can use when

SHAHRANI - DIRECT - MR. TUCKER

1 you read your email, right. Old style when you were
2 connecting to IMAP, like Internet mail application service,
3 your computer would reach out to the mail server, download a
4 copy of all the emails and store it locally. Your phones,
5 other devices things like that probably still do that. They
6 reach out and get a copy of either the protocol called POP and
7 there's a protocol called IMAP. But in general, basically
8 they reach out, they get a copy of the mail and they store it
9 locally.

10 With the rise of webmail, that's different. So you
11 can -- if you've accessed your, say, Gmail or Yahoo mail, or
12 whatever, or hotmail account from a web browser, those
13 messages aren't really being downloaded to your computer, they
14 are being shown, they're being displayed to you, like you can
15 see them, but there aren't like duplicate copies of that
16 stored locally and pretty much when you close the web browser
17 your system loses access to those mails.

18 Now, obviously, there are other things that you can
19 set and configure so that you can have that mail copied to you
20 locally, but fundamentally if you're using a webmail
21 interface, you see the emails, they are stored on the remote
22 server, they stay there, you look at them, when you're done
23 the web browser closes and the only thing that will be left on
24 the local computer would be, as I said, artifacts, things were
25 that cached, bits and pieces that are left behind by the

SHAHRANI - DIRECT - MR. TUCKER

1 browser.

2 Q Like what we're looking at here in Government
3 Exhibit 418?

4 A Correct.

5 Q And showing you what's in evidence as 426 and 426T. Is
6 that the same sort of thing, Agent Shahrani?

7 A Right, so same sort of thing. This came from -- this is
8 a file that was listed as, basically in short, inbox then to a
9 square parenthesis around a one. So inbox square parenthesis,
10 number one, close parentheses, dot HTM. So same kind of
11 thing, right.

12 This is -- you can see across the top here in the
13 translated version, this look likes it's kind of the
14 navigation bar at the top of an email system like you'd
15 expect, or if not the navigation bar the interface, and then
16 it also has at the end of it the username or the email address
17 VMARKEN@BK.RU.

18 Q Agent Shahrani, what's metadata?

19 A Metadata is data about data. So if -- lets take an
20 example that's been in the news somewhat, right. So if you
21 talk about a phone call, the phone call itself, the
22 conversation that a person has with another person, that would
23 be the data, right, that's the content of the call. But the
24 metadata for that would be the time that the call was placed,
25 the duration of the call, where the two people were, right, if

SHAHRANI - DIRECT - MR. TUCKER

1 it's a cellular conversation, the GPS location or other
2 location data for one party and that same data for the other
3 party. So basically it's information about the file itself or
4 about something. It doesn't necessarily have to be a file,
5 you could have metadata about lots of different things.

6 Q Were you able to identify any metadata associated with
7 Government's Exhibit 418?

8 A Yes.

9 Q And did that metadata include a last modified date?

10 A Yes.

11 Q What did you learn?

12 A The last modified date was mid 2012 or -- yeah.

13 Q The last modified date for this document?

14 A I believe so was -- sorry, I'd have to refer.

15 Q Okay.

16 MR. TUCKER: May I just have moment, Your Honor?

17 THE COURT: Yes.

18 Q Agent Shahrani, one other question here, this domain
19 VK.RU, what's the significance of that?

20 A It's a Russian email provider, I believe.

21 MR. TUCKER: Your Honor, if I could have just one
22 moment. I apologize trying to find something or I'll just
23 move on. Seems not.

24 Q Agent Shahrani, just so we're clear, Government
25 Exhibit 418, sitting here today, do you remember the date

SHAHRANI - DIRECT - MR. TUCKER

1 modified for this particular document?

2 A I don't.

3 Q Agent Shahrani, we talked about a few specific examples
4 of files that you were able to find on images associated with
5 the defendant Korchevsky's media; is that right?

6 A That's correct.

7 Q Is that everything that you looked at on Korchevsky's
8 media?

9 A No.

10 Q Was that everything that the FBI was able to identify --

11 A Yes.

12 Q -- on Korchevsky's media?

13 MR. TUCKER: Just one moment, Your Honor.

14 Could I just show the witness, Ms. Mulqueen?

15 THE COURTROOM DEPUTY: Witness only.

16 MR. TUCKER: Witness only.

17 Q I'm showing the witness what's been marked for
18 identification as Government's Exhibit 4 -- 826.

19 THE COURTROOM DEPUTY: 8-2-6.

20 MR. TUCKER: 8-2-6.

21 Q Agent Shahrani, turning to the second page of this
22 document, do you recognize that entry?

23 A I do.

24 Q Now, agent Shahrani, what is Government's Exhibit 826?

25 A This looks like it could be metadata for the file I

SHAHRANI - DIRECT - MR. TUCKER

1 mentioned, inbox with the parenthesis number 2.HTM.

2 Q So it's clear, that was Government Exhibit 418; is that
3 right?

4 MR. HEALY: Objection.

5 THE COURT: What's the objection?

6 MR. HEALY: I don't believe that's what the witness
7 said. I believe that's --

8 THE COURT: I understand him to be referring -- tell
9 us exactly -- first of all, lets go back to 826 --

10 MR. TUCKER: Yes.

11 THE COURT: -- what is it?

12 BY MR. TUCKER::

13 Q What is Government's Exhibit 826?

14 A That's the metadata for the exhibit that you showed just
15 before this.

16 Q So that's -- you were testifying earlier about data?

17 A Right, if you set it down again --

18 THE COURT: The metadata for 418 in evidence?

19 THE WITNESS: Correct. So this is the metadata, as
20 I said, that 418 was originally stored as inbox with the
21 parentheses 2.HTM. This is the metadata for that.

22 THE COURT: Clear, Mr. Healy.

23 MR. HEALY: Yes, Your Honor.

24 MR. TUCKER: Your Honor, the government offers
25 Government's Exhibit 826.

SHAHRANI - DIRECT - MR. TUCKER

1 THE COURT: Any objection?

2 MR. HEALY: No objection, Your Honor.

3 THE COURT: Received 826 in evidence.

4 (Government Exhibit 826, was received in evidence.)

5 MR. TUCKER: May we publish, Your Honor?

6 THE COURT: Go ahead.

7 (Exhibit published.)

8 THE COURT: Go ahead, then we will take your break.

9 MR. TUCKER: This is my last question, Your Honor --
10 my last two.

11 So, Agent Shahrani, this makes reference to that
12 domain that you mentioned earlier, inbox bracket 2.HTM; is
13 that right?

14 A That's correct.

15 Q Does this reflect the metadata you were testifying about
16 earlier of last modified?

17 A Yes. That's December 10th, 2014 at 16:25 eastern
18 standard time.

19 Q So it's clear, that's the last modified time of this
20 Government's Exhibit 418 which is in evidence?

21 A Correct.

22 Q And, Agent Shahrani, would you explain to the jury the
23 limitations of the last modified and what it means?

24 A Sure. So last modified depends on a lot of variables,
25 right. Depending on how the system is configured, whether the

SHAHRANI - DIRECT - MR. TUCKER

1 date and time on the local computer are set properly. So if
2 everything is set correctly on the system, then typically the
3 last modified date reflects accurately, but what a
4 modification is depends on what some of the systems are,
5 right? So if the file is copied, there are other stages or
6 other steps that can be done to a file that could change it.
7 But, typically, the last modified date is the last time the
8 file was modified. So if it's sitting there and nothing has
9 been done to it, it hasn't been edited or changed typically
10 the last modified date reflects that.

11 MR. TUCKER: No further questions, Your Honor.

12 THE COURT: All right. We will take our mid-morning
13 break, folks, do not discuss the case. We will resume in
14 about 12 minutes.

15 THE COURTROOM DEPUTY: All rise.

16 (Jury exits courtroom.)

17 THE COURT: Okay, you can step down for a few
18 minutes.

19 THE WITNESS: Thank you, Your Honor.

20 THE COURT: I think, folks, relative to the
21 gentleman I discussed earlier in the morning, I think maybe
22 the best way to do this would be to take a few minute -- to
23 break for lunch just a few minutes early, I think it would be
24 less apparent to the rest of the jurors. Do you all have a
25 view on whether or not you want to do this in open court or

SHAHRANI - DIRECT - MR. TUCKER

1 defer to the courtroom and the court reporter.

2 MR. BRILL: For Mr. Korchevsky, we have no problem
3 with the Court in private speaking to the juror initially.

4 THE COURT: Yes, of course. And you'll get that
5 conversation of course.

6 Ms. Whalen, you're views.

7 MS. WHALEN: Our preference would be to do it in
8 open court, Your Honor.

9 THE COURT: Then we will do it in open court.

10 MS. WHALEN: Thank you.

11 (Recess.)

12 (Continued on the next page.)

13

14

15

16

17

18

19

20

21

22

23

24

25

SAMAD SHAHRANI - CROSS - MR. HEALY

1 (The following takes place out of the presence of
2 the jury.)

3 THE COURT: Where is our witness?

4 MR. TUCKER: He's out in the hall, Judge.

5 THE COURT: Have a seat, folks, while we await the
6 witness.

7 (Pause in the proceedings.)

8 THE COURT: Here he comes.

9 (Witness enters courtroom.)

10 THE COURT: I tell you I keep the whip cracking,
11 right. I guess I have to tell everybody else too.

12 (Witness resumes the stand.)

13 THE COURT: All right, cross-examine.

14 MR. HEALY: Thank you, Your Honor.

15 (Pause while counsel confer.)

16 CROSS-EXAMINATION

17 BY MR. HEALY:

18 Q Good afternoon, Agent Shahrani.

19 A Good afternoon, counselor.

20 Q I'd like to start with something that I think that I'm on
21 firm footing here, I want to talk about IP addresses and hot
22 spots.

23 A Okay.

24 Q You told the government on direct that an IP hot spot
25 allows someone to have a different IP address than their home

SAMAD SHAHRANI - CROSS - MR. HEALY

1 IP address; is that correct?

2 A Typically, yes.

3 Q But you agree with me that people buy mobile hot spots
4 for reasons other than concealing their home Wi-Fi IP address,
5 correct?

6 A Yes.

7 Q In fact, people buy mobile hot spots so that they can
8 have access to the internet when they may not have Wi-Fi
9 service; is that correct?

10 A Yes.

11 Q Perhaps when they're traveling?

12 A Yes.

13 Q And you'd also agree with me that any time you log in
14 from a mobile device or a computer when you're not at home,
15 you're going to get a different IP address than your home
16 IP address?

17 A Assuming that you don't VPN into your home computer and
18 then connect through that, yes.

19 Q Absolutely assuming that.

20 You'd agree with me that, for example, anybody
21 that's logged in through the Eastern District of New York
22 Wi-Fi will have a different IP address than their home
23 IP address.

24 A Yes.

25 Q In fact, they'll have the same IP address, correct?

SAMAD SHAHRANI - CROSS - MR. HEALY

1 THE COURT: Same IP address?

2 A Excuse me?

3 Q The same IP address.

4 If you've logged into this Wi-Fi, this Eastern
5 District of New York Wi-Fi, anyone who logs into that will
6 have the same IP address, correct?

7 A Depending on how the server is configured, so there are a
8 lot of variables to what you're asking.

9 Q I'll withdraw that. We don't need any more details.

10 A Yeah.

11 Q I want to start with talking about the two computers that
12 you examined that were seized on August 11th, 2015. I believe
13 you told us that you examined a Lenovo computer?

14 A Yes, SC-5 and SC-40.

15 Q Yes.

16 A Yes.

17 Q And you examined a Dell computer?

18 A That's correct.

19 Q And when you examined those, you found some artifacts
20 that referred to a VMarken?

21 A That's correct.

22 Q I want to talk about those in a moment. I'd like to talk
23 about specifically some other things.

24 Would you agree with me that the hard copy images
25 from those computers occupy tens of thousands of pages?

SAMAD SHAHRANI - CROSS - MR. HEALY

1 A Assuming that you could put some of that content and
2 print it out, sure.

3 Q And when you searched those tens of thousands of pages,
4 you were searching for connections that would tie those
5 computers to the hackers; is that correct?

6 A We would search for a variety of different things. We
7 would be looking for information, yes, that might tie them to
8 the hackers but other information that's also relevant to the
9 investigation. It is not an either/or kind of possibility.
10 You'd look for anything that might be relevant to the
11 investigation.

12 Q I didn't mean to imply exclusively, I just wanted to know
13 if you searched for evidence tying the computers to the
14 hackers and I think you told us yes.

15 Did you find any evidence of Loscal?

16 A No.

17 Q And you didn't find any evidence of Rupion?

18 A No.

19 Q You didn't find any evidence of the IP address
20 83.133.126.96?

21 A That's a remarkably specific question that without
22 reference I couldn't say one way or the other.

23 Q Were you even asked to look for that?

24 A Without referring to notes, I don't know.

25 Q You didn't find any evidence of Warning GP, did you?

SAMAD SHAHRANI - CROSS - MR. HEALY

1 A On the SC-4 and SC-5 systems?

2 Q Correct.

3 A No.

4 Q You didn't find any evidence of Vladimir Kopienko (ph)?

5 A No.

6 Q You didn't find any evidence of an email address vip2000?

7 A No.

8 Q You didn't find any evidence of an email address
9 stargate11?

10 A No.

11 Q You didn't find any evidence of an email address
12 positivel?

13 A No.

14 Q You didn't find any evidence of Valera Pychnenko?

15 A No.

16 Q You didn't find any evidence of Vaiobro?

17 A No. But that being said, the Vaiobro name wouldn't
18 necessarily -- that's s chat name, not a computer name or
19 system name.

20 Q But you didn't find it?

21 A Correct.

22 Q Now, you testified you're aware those two computers, the
23 Lenovo and the Dell, were seized on August 11, 2015, correct?

24 A I don't recall the exact date but they were seized
25 pursuant to a search at the defendant's residence.

SAMAD SHAHRANI - CROSS - MR. HEALY

1 Q And --

2 A Or, excuse me, the computers themselves were imaged, I
3 don't believe the computers themselves were seized. I believe
4 they were copied and then I reviewed those copied images.

5 Q Would you agree with me if they were seized subject to a
6 search warrant, they were no longer in the possession of the
7 person who had them prior to the seizure?

8 A Well, as I said, I don't believe that the systems were
9 physically seized, I believe that they were imaged and
10 normally if a system is imaged in place the system remains
11 with the user or the owner.

12 Q Fair enough.

13 From your examination of those two computers, you
14 don't know who had them prior -- who had possession of them
15 prior to August 11th, 2015, do you?

16 A When you say those two computers, do you mean SC-4 and
17 SC-5 or do you mean the original, the War and Alex PC systems?

18 Q No, no, we're still talking about the Dell and Lenovo,
19 I'd like to just use those.

20 A Sure, I just want to make sure we're talking about the
21 same thing. Could you repeat the question.

22 Q From your examination of those two computers, you have no
23 information, no evidence as to who actually possessed them
24 prior to their being seized and imaged on August 11, 2015?

25 A There was data on there from -- well, I mean there was

SAMAD SHAHRANI - CROSS - MR. HEALY

1 personal data relating to individuals on the system but I'm
2 not sure exactly what you mean by proof of who owned the
3 systems before then -- that date.

4 Q I wasn't asking for proof, I was just asking if you had
5 any information that on a given day, let's say April 3rd,
6 2012, who actually was in possession of that computer?

7 A Not that I'm aware of, no.

8 Q And you don't actually know who purchased that computer
9 based on your examination of the images?

10 A No, based on the examination of the images I don't but
11 that doesn't mean we don't have that information from another
12 method.

13 Q But you yourself?

14 A No, I personally have no idea.

15 Q And you yourself don't know who installed anything on
16 either of those computers?

17 A No, I don't.

18 Q Now, you told us that on the Dell computer you extracted
19 something that's in evidence as --

20 MR. HEALY: This is in evidence, Ms. Mulqueen.

21 THE CLERK: Certainly.

22 Q It's in evidence as 424.

23 A Correct.

24 Q And we refer to this -- you referred to this as
25 Office 365?

SAMAD SHAHRANI - CROSS - MR. HEALY

1 A A receipt for the purchase.

2 Q A receipt for Office 365. Now, you don't know who
3 installed this on that Dell computer, do you?

4 A No.

5 Q And you don't know who was in possession of the computer
6 when it was installed, do you?

7 A No, I don't.

8 Q You do know or we do know from this exhibit that it was
9 billed to Igor Dubovoy, correct?

10 A That's the email address listed, yes.

11 Q Now, you also talked about a couple of artifacts that
12 were found on the Lenovo computer, do you recall that?

13 A I do.

14 Q And I'm going to show you what is in evidence as
15 Exhibit 418 and this is the original version which is in
16 Cyrillic.

17 MR. HEALY: Mr. Tucker, could I get the translated
18 version which would be 418-T?

19 (Pause.)

20 MR. HEALY: This is 418-T.

21 Q I just want to make sure that we are referring to the
22 same exhibit. Is this the exhibit that corresponds to the
23 metadata that you told the jury about in 836, this particular
24 original artifact?

25 A No, I believe the metadata was for 426 -- no, I'm sorry,

SAMAD SHAHRANI - CROSS - MR. HEALY

1 yeah, it's 418.

2 Q It was this exhibit?

3 A Yeah, I believe so.

4 Q This one says that says Registration Log in here, this
5 one?

6 A Yeah, that's what you're saying is 418?

7 Q Yes.

8 A I believe so, yes.

9 Q And I believe you told the jury that the message that
10 Mr. Tucker highlighted and it's still highlighted that "your
11 computer has the incorrect local time installed" popped up
12 because the system ascertained that the incorrect local time
13 was installed?

14 A Well, no. So, what it is is -- how to explain this --
15 so, if you looked at this file as the raw html, right, the raw
16 code, you wouldn't see that message because that code, there's
17 a little piece of java script or some kind of code that is
18 running, when you open this up in a web browser it runs, and
19 because we were looking at it in a forensic box -- a forensic
20 review system, that script in the background noticed that
21 something was off, basically it couldn't communicate with its
22 home server because our forensics systems are not connected to
23 the internet so it can't ping out and get like the date and
24 time information, all the stuff it is wanting, so it just
25 generated an error message. If you looked at the raw html

SAMAD SHAHRANI - CROSS - MR. HEALY

1 code, you'd see that error message and a variety of other
2 potential error messages in there because the raw code
3 contains most of what could be displayed. So, that doesn't
4 mean that the individual computer that this file was recovered
5 from had a time and date setting correctly, it means that
6 because we tried to display it on our forensic computer in a
7 human readable format as opposed to giving it as a very
8 jumbled html file, the browser read some of the code and
9 generated that error message because it couldn't talk out to
10 what it expected to. That doesn't mean that the system itself
11 it was recovered from had a misconfigured time key.

12 Q So, basically that has no significance, that statement at
13 the top of that?

14 A Correct.

15 Q So, it could have had a correct date and time code or it
16 could have had an incorrect date and time code?

17 A Yeah, basically, like I said, it is an artifact, that's
18 all it is. If you looked at this on a normal system or on the
19 system itself, you probably wouldn't have seen it or you might
20 have seen it on the system itself because it wasn't able to
21 talk out to the servers it was expecting to. Like I said,
22 with web mail there's a lot of stuff that's loaded behind
23 scenes so when you get an artifact, depending on how you
24 display it, there's lots of things that you would never
25 normally see unless there was an error.

SAMAD SHAHRANI - CROSS - MR. HEALY

1 Q But you did tell us that 836, which had a date and time
2 in December of 2014, that actually may be an incorrect date
3 and time?

4 A The metadata for the file, that's what was displayed but
5 without knowing more details about the nature of the system
6 and some of the configurations, I can't say that that was
7 certainly the time.

8 Q That's all I wanted to know, we don't know for certain
9 that that's the correct date and time.

10 A Right, without more information, no.

11 Q I want to turn for a minute and talk a little bit about
12 4-A and 6-B, those are the computers that I might refer to as
13 the Alex PC and the War PC.

14 A Okay.

15 Q Now, and if you need, by the way, Agent, to refer to the
16 SS-2 and SS-3, that's fine, I know you were referring to those
17 on your direct testimony.

18 A Okay.

19 Q I want to talk first about the Alex PC which is 4-A.

20 A Okay.

21 Q So, in your examination of the Alex PC or in your
22 verification of the original examination of the Alex PC, would
23 you agree with me that the computer is only indicated
24 potentially for being used as intrusion between November
25 of '11 and November of 2012. And if you want, you can refer

SAMAD SHAHRANI - CROSS - MR. HEALY

1 to page one, I believe that's contained in the report on page
2 one.

3 A So, yeah, no, I think that's fair.

4 Q But, in fact, as you testified, the three newswire
5 services that we've been talking about, PR Newswire,
6 Business Wire and Marketwired, actually have indications that
7 are significantly after the first indication, significantly
8 after November of 2011, correct?

9 A I don't know of the exact dates for some of those
10 intrusions.

11 Q Well, if we look at what you testified to, I believe you
12 told the jury -- and I believe this is indicated on page nine
13 of SS-2 -- that the first indication of an SQL report -- and
14 if I use the wrong language, please correct me -- the first
15 indication of an SQL report was actually in March of 2012; is
16 that correct?

17 A Right, yeah, there's a file here, r2b2hn.com.

18 Q Then the first indication of a PR Newswire SQL report was
19 in May, May 30th of 2012? I believe that's on page 19.

20 A That appears -- sorry, what was the date again?

21 Q I believe you said it was May 30th, 2012; is that
22 correct?

23 A Yes, that appears to be.

24 Q And although the report indicates that the last date that
25 that computer, that Alex PC had access or made an intrusion

SAMAD SHAHRANI - CROSS - MR. HEALY

1 attempt was in November of 2012, in fact the report limits
2 even further when it was used in conjunction with each
3 newswire service; so, for example, Business Wire, the last
4 intrusion evidence is September 8th of 2012, and again would
5 be page nine?

6 A In, let's see, some of the chat history -- if you're
7 saying September 8 of 2012, I think that's just referencing
8 chat history --

9 Q Well, it could be earlier; can you tell from that when
10 the last SQL intrusion was?

11 A The last record on here says -- or the last that's noted
12 on this particular one seems to be March 24th of 2012, that's
13 the last SQL map. I should note that just because an SQL map
14 was run on that date, that doesn't mean that the information
15 gathered from the SQL map was not used at a later date and
16 time to commit an intrusion. These are the logs -- like you
17 wouldn't need to rerun the SQL map multiple times over a
18 period of time to get this, you could run it once or twice,
19 get the information you needed and then use that information
20 at a later date and there wouldn't necessarily be log files
21 or any records left on the system of that event.

22 Q Depending on what the information was?

23 A Right, depending on what the information was and
24 depending on what tools you used.

25 Q So, in fact we'll talk about that in a bit.

SAMAD SHAHRANI - CROSS - MR. HEALY

1 I also think that that report that you reviewed and
2 verified indicates that the hackers reached different levels
3 of access on the different servers, is that fair to say?

4 A In the conversation they had they discussed certain
5 levels of penetration that they mentioned in the system and
6 also discussed elevating their privileges which is a fairly
7 common tactic.

8 Q When you say "they" discussed, who is "they"?

9 A The conversations that are occurring between the hackers
10 or the individuals.

11 Q Fair enough. I'm actually talking about what the
12 forensic examination determined which you said you reviewed is
13 that, as I understand it, that, for example, the finding was
14 that PR Newswire was researched, is that fair to say?

15 A You could use the term researched, you could say scanned,
16 you could say cased, that would be synonymous.

17 Q That's a fairly low level of access, correct?

18 A It would -- I would say it is more of a preliminary step
19 as opposed to -- like I said, it is similar to casing a
20 location, you're not maybe breaking into it but you're looking
21 for vulnerabilities, you're looking for weaknesses, so it
22 would be an early step in the intrusion process.

23 Q And that Marketwired and Business Wire had been accessed
24 is the term that I believe was used in the report?

25 A That's correct.

SAMAD SHAHRANI - CROSS - MR. HEALY

1 Q But none of those domains were actually compromised which
2 is the highest level, correct, according to that report?
3 There's a table on page eight if it refreshes your
4 recollection.

5 A Right. So, according to the information -- well, again,
6 there's kind of a semantics issue here where if you say you
7 accessed the system without further details is something that
8 can have many different meanings; you can be a hacker and say
9 that you successfully accessed the system by breaking into it,
10 you could also say you accessed the system by logging on to
11 their public website. In the context of hackers, typically if
12 you're saying you accessed a system, it means you breached it,
13 but without more context I couldn't say.

14 Q You couldn't say whether any of those reached the level
15 of compromise, that was my question?

16 A Sorry. So, yes, if you're asking if these were SQL --
17 the SQL map sessions were compromised, there were database
18 dumps that were present on there which would indicate that the
19 systems -- that that data had been extracted from the target
20 systems which would indicate that there was some kind of
21 compromise.

22 Q So, are you saying that that report is incorrect?

23 A No, I'm saying it is a semantic differential, saying a
24 system was accessed can have many meanings, it is not a -- it
25 is an open term that could be interpreted several different

SAMAD SHAHRANI - CROSS - MR. HEALY

1 ways.

2 Q We'll disregard the table in the chart then.

3 Let's talk about it this way. You talked about data
4 dumps and documents; those documents aren't necessarily press
5 releases, correct?

6 A No, those documents -- so, some of the documents we
7 discussed were user names, passwords, login-s, things that you
8 would need to access the system to obtain press releases and
9 other content.

10 Q Or try to access the system?

11 A Or attempt to access the system. Although having those
12 user names and passwords in and of themselves would suggest
13 that there had been an access of information that the ultimate
14 user, that the typical user wouldn't have access to, that they
15 would have had to have done something to obtain that
16 information.

17 Q Absolutely, Agent, I don't mean to imply that there was
18 no hacking going on. I'm just trying to get a little more
19 precision on exactly when and where things were done.

20 And before we move on to the War computer, can we
21 agree that any data that was taken off of the newswire
22 services from this particular computer had to happen in the
23 case of Business Wire after March of 2012?

24 A Based off of the records that we were able to locate, the
25 materials that we were able to see on the system, that's

SAMAD SHAHRANI - CROSS - MR. HEALY

1 consistent but that doesn't mean there weren't other systems
2 used that the hackers didn't -- basically that's off of what
3 we have here.

4 Q That's my question, off of this computer?

5 A Off of this information, that's correct.

6 Q And for PR Newswire, for this particular computer, any
7 information that was obtained had to be after May 30th of
8 2012, that was the date you told us?

9 A Well, on or after.

10 Q I'm happy to go with on or after.

11 A Sure.

12 Q And with Marketwired, where I don't believe you told us
13 and we'll just go with general first evidence of intrusion,
14 May 15th of 2012?

15 A That sounds correct, yes.

16 Q Let's talk briefly about the War computer, that would be
17 of 6-B. You want to refer to SS-3 is the report you're
18 referring to.

19 A Okay.

20 Q So, according to the indications in the forensic review
21 of that computer, the first instance of any malicious activity
22 was in February 20th -- on or about February 20th, 2012; is
23 that correct?

24 A Yes, I believe -- let me verify that, yes. You said
25 February --

SAMAD SHAHRANI - CROSS - MR. HEALY

1 Q 20th. On page one.

2 (Pause.)

3 A Yeah, I'm looking at the actual original, the session
4 info. Yes, that sounds correct.

5 Q And you told the jury that actually with respect to each
6 newswire service, the dates are somewhat later. So, for
7 Marketwired you told us the first SQL intrusion was on May 2nd
8 of 2012; is that correct?

9 A I believe so.

10 Q And that for Business Wire it was in March of 2012?

11 A That sounds correct.

12 Q And for PR Newswire it was in March also of 2012,
13 March 26th?

14 A Yes, let me double-check just to make sure.

15 Q That would be on page 37 if I'm not mistaken.

16 A Yes, sounds right.

17 Q And then the last intrusion for anything on this computer
18 that there's any forensic evidence is October 19th of 2012?

19 A That sounds correct but, again, I'd like to clarify. The
20 last -- saying that the last intrusion is just the last scan,
21 the last logs, the records on here, that doesn't mean there
22 weren't other intrusions. I'm just saying from the records
23 here.

24 Q From the records you reviewed, that's all we can ask you
25 to talk about.

SAMAD SHAHRANI - CROSS - MR. HEALY

1 A Yeah.

2 Q So, to be clear finally, any information that was
3 obtained by this War computer, 6-B, for Marketwired had to
4 have been obtained after May 2nd of 2012?

5 A On this particular computer?

6 Q Yes?

7 A Yes.

8 Q Only referring to this particular computer.

9 A Yes.

10 Q And then on Business Wire I believe it is March 19th of
11 2012?

12 A That's correct.

13 Q And PR Newswire on March 26 of 2012?

14 A That's correct.

15 MR. HEALY: No further questions.

16 THE COURT: All right.

17 Ms. Whalen.

18 (Continued on next page.)
19
20
21
22
23
24
25

SHAHRANI - CROSS - MS. WHALEN

1 CROSS-EXAMINATION

2 BY MS. WHALEN:

3 Q Good afternoon.

4 A Good afternoon, counsel.

5 Q I'm going to show you what's been previously marked and
6 entered into evidence as Government Exhibit 323.

7 A Okay.

8 Q And I think you were asked about it on Thursday of last
9 week.

10 A That's correct.

11 Q Okay. And so at the top of the document, you testified
12 that this was sent from the e-mail address of Vladislav
13 Khalupsky?

14 A According to the header information, yes.

15 Q And then it was sent on December 12th -- December 18th,
16 2013?

17 A Correct.

18 Q And --

19 A Again, based on the header.

20 Q Based on the header.

21 So let's -- assuming -- we are just reading into
22 evidence what the header says.

23 A Yes.

24 Q And that it was at 1:52 p.m., correct?

25 A Right, but with an unknown time zone.

SHAHRANI - CROSS - MS. WHALEN

1 Q That's correct. I believe that was your testimony on
2 Thursday.

3 A That's correct.

4 Q And it was sent to the address vkhalupsky2002@yahoo.com,
5 according to the header.

6 A Correct.

7 Q And just going to the second page, I think you also
8 reviewed this in your testimony on Thursday, correct?

9 A Yes.

10 Q Okay. And you saw, and I believe you were asked about,
11 dolphintenet.odessa.ua, correct?

12 A Yes, I was.

13 Q And there's a series of numbers, 195.138.72.114, correct?

14 A Correct. That's an IP address.

15 Q That's an IP address, great.

16 There's also what appears to be an IP address in
17 front of it. It's 192.168.0.100, correct?

18 A That's correct.

19 Q Now, first going back to dolphintenetodessa.UA. TENET.UA
20 is a telecommunications company in Ukraine, correct?

21 A If you say so. I'm sorry, I'm not intimately familiar
22 with --

23 THE COURT: If you don't know, I don't know.

24 A Okay. I don't know.

25 Q Did you do any investigation into -- I'm assuming you did

SHAHRANI - CROSS - MS. WHALEN

1 not do any investigation since you don't know about it.

2 A Correct.

3 Q And this -- trying to get information about this company
4 was not part of the mutual legal assistance treaty activity
5 that you -- that took place in this case, correct?

6 A I don't know.

7 Q Looking at this IP address, since you didn't do any
8 investigation into TENET, you don't know how many individuals
9 or how many devices could be connected to this IP address,
10 correct?

11 A I have no idea.

12 Q And then this other IP address 192.168.0.100, that's part
13 of a series of IP addresses that are reserved for private
14 Internets, correct?

15 A Yeah. Typically -- it's called reserve address, so that
16 basically suggests that it's an internal network. In this
17 case, since this is Webmail and it's Google, it might be a
18 Google internal IP address. Basically, there were public
19 facing IP addresses that everybody is kind of familiar with,
20 and then there's a reserved or series of reserved internal
21 blocks that you are supposed to use inside of your network,
22 and that would be one of those reserved addresses.

23 Q Okay. And so -- while this address 19513872114 would be
24 unique --

25 A Typically, that's a public facing IP address, so that

SHAHRANI - CROSS - MS. WHALEN

1 would be unique on the Internet -- unique on the public
2 Internet. That doesn't mean that somebody couldn't set up
3 their own you know weird internal network and then reassign
4 that. But, yes, in terms of something you could access on the
5 Internet, that would be unique.

6 Q And so generally, though, these 192.168 numbers, they can
7 be repeated in internal networks from business to business,
8 correct?

9 A Sure. If we all went to our individual homes and if you
10 had, like, a Wi-Fi router and you had multiple devices
11 connected to that, all of us would probably have a 192
12 address, something internal to that network. That's fairly
13 standard.

14 Q Now, there was also some discussion about time of this --
15 the time of this e-mail, and I think, as you indicated, on the
16 header on the front of the e-mail, it says 1:52 p.m., correct?

17 A Correct.

18 Q But we have no direct information because we don't know
19 what time zone, correct?

20 A Right. But I think if you look at the header, it will
21 give you the time zone.

22 Q Okay. And so just going through the time zone, we have a
23 time at the top, the first line, 10:52.28 2013.

24 A Mm-hmm.

25 Q We then have another time above the line that says

SHAHRANI - CROSS - MS. WHALEN

1 content-type. Again, it says, Wednesday, December 18, 2013,
2 and that gives 10:52.27, correct?

3 A Yeah.

4 Q And that has a minus 0800, and you indicated that that
5 was Pacific Standard Time, correct?

6 A Yeah. Minus 800 is -- most servers are run on, as I
7 said, UTC, Universal Time Code, it's basically Greenwich Mean
8 Time, and that way you can -- no matter where your server is,
9 everybody is kind of operating off of the same time code. You
10 basically have to have something like that set up otherwise
11 the Internet doesn't really work. So, in this case, the time
12 would be 10:52.27 or 10:52.28 depending on when it moved from
13 server to server. There's -- obviously, if somebody moves
14 from one server to another, there's a little bit of lag time.

15 Q And then there's one more time down four -- four lines
16 from the bottom next to -- it says date, and it says,
17 Wednesday, 18, December 2013, 20 52 27 and then it has plus
18 0200, correct?

19 A That's correct.

20 Q And that would be UTC plus two hours, correct?

21 A Correct. I'm not sure exactly what the non-UTC time zone
22 would be. It's somewhere in Europe, I would assume.

23 Q You have no knowledge -- you have no personal knowledge
24 that this is the time zone in Ukraine, correct?

25 A Yeah. I'm sorry, I don't know what the time zone is

SHAHrani - CROSS - MS. WHALEN

1 Ukraine is.

2 Q And then I'm also going to show you -- it's been
3 marked -- what's been admitted into evidence as Government
4 Exhibit 323-A1, and you've seen this before, correct?

5 A Yes, I have, on Thursday.

6 Q And this was -- I believe this was the attachment to 323?

7 A Yes.

8 Q And I believe that you testified -- and I believe you
9 testified that there were letters "E N" displayed on the
10 monitor.

11 A Yes. You can see them there.

12 Q And I believe that it was your testimony that this meant
13 that the computer was configured to English, correct?

14 A Well, if you have that in the lower corner, that's
15 basically a setting that you can change, so you can toggle
16 what language it displays. Normally, for most of us, if you
17 are a monolingual user, you don't have the language packs
18 installed, so that doesn't appear. If you are bilingual or
19 speak multiple languages or are working in multiple languages
20 for whatever reason, you can install a language pack, and then
21 normally the option to switch between the languages can be
22 presented.

23 Q Okay.

24 So this is a setting that can be changed on the
25 computer, the language of display, correct?

SHAHRANI - CROSS - MS. WHALEN

1 A Yeah. That's -- I think it's a setting in the control
2 panel for Windows. You can configure it to display in
3 whatever language you have a pack installed for.

4 Q Okay.

5 And then also --

6 A And you also might have to install those language packs
7 to have foreign languages displayed properly in general. For
8 instance, Cyrillic Arabic, sometimes you have to install a
9 pack otherwise the data looks kind of garbled.

10 Q And let's just -- sorry. I think you testified as to the
11 time in the corner being 1:25 p.m., correct?

12 A That's what's it's displaying, yes.

13 Q I think as you're saying, we don't know that that's the
14 actual time. That's just the time that the computer is
15 configured to, correct?

16 A That's correct.

17 Q Okay. And then also, I believe, you testified today --
18 oh, here it is -- you testified as to on the left-hand side of
19 the exhibit, sort of the last icon displayed on the left-hand
20 side, I think you testified that that was a WinZip icon?

21 A I'm sorry, you mean the right-hand side?

22 Q I'm sorry, I have real problems with right and left.

23 A Okay.

24 Q So --

25 A Yes. So on the right, as we're looking at the exhibit,

SHAHRANI - CROSS - MS. WHALEN

1 the rightmost icon?

2 Q Yes.

3 A Okay.

4 Q Is that the WinZip?

5 A It appears to be.

6 Q And that's -- I think you testified that that was a way
7 to look at files that had been compressed through the zip
8 program, correct?

9 A Yeah. WinZip can both compress and decompress files.

10 Q And then -- and I believe also you testified that -- I
11 think it was on Thursday -- as to the date of the computer.

12 A Right. It looks like it's displayed as 18 12 2013, so
13 it's a European kind of date format.

14 Q And then today, you testified about a number of -- you
15 testified somewhat on Thursday and then again today about a
16 number of computers that had been imaged that you had
17 reviewed, correct?

18 A That's correct.

19 Q And you testified, I believe, about 4-A?

20 A Yes. 4-A was Alex PC.

21 Q Alex PC.

22 And then you testified about 6-B which, I think, was
23 named War?

24 A Yes.

25 Q And these two -- these two images were from laptops that

SHAHRANI - CROSS - MS. WHALEN

1 were seized in Kiev, Ukraine, correct?

2 A I don't know if they were laptops. I just know they were
3 personal computers.

4 Q But some kind of personal computer that was seized
5 pursuant to a mutual legal assistance treaty search, correct?

6 A I believe so, yes.

7 Q And they were seized in Ukraine, correct?

8 A I believe so, but that's a -- that's what I was told, but
9 you would have to speak with the --

10 Q So you have no personal knowledge as to where it is.

11 A Correct.

12 Q But in reviewing the images of these computers, you were
13 able to determine the last date that the computers had been
14 accessed, correct?

15 A That's correct, yeah, we discussed that.

16 Q And I believe that 4-A was last accessed on
17 November 16th, 2012?

18 A Yes, that's correct.

19 Q Okay. And 6B was last accessed on December 19th, 2012?

20 A October 19th, 2012.

21 Q October, sorry.

22 And then you were asked to review a number of
23 exhibits -- I'm just going to list them. You were asked to
24 review them today. 437, 408, and 409.

25 A Yes.

SHAHrani - CROSS - MS. WHALEN

1 Q Government Exhibit 411 and 444?

2 A Yes. The output files from SQLmap.

3 Q So those were the output files from the computers, or at
4 least one of the computers, that was seized, you believe, in
5 Ukraine, correct?

6 A Yes.

7 Q And then you also looked at 413, 407 and 407-T?

8 A Yes.

9 Q 427, 405, and 406-T?

10 A Yes.

11 Q And then 431, 432, 433, 434, and 435, correct?

12 A Correct.

13 Q And all of those were files from the Alex PC or the War
14 PC, correct?

15 A Correct.

16 Q And all of those files were in the computers that were
17 seized on November 16th, 2012, correct?

18 A Yes. They were -- the files that were provided to me
19 that were seized and provided to the secret service and then
20 to us.

21 Q So in any event, the folders that you saw, all of those
22 government exhibits that I just referred to, all of those
23 exhibits came from the computers that you reviewed and the
24 images of those computers?

25 A Yes, that's correct.

SHAHRANI - CROSS - MS. WHALEN

1 Q Alex PC and War, correct?

2 A Correct.

3 Q Those files were contained in the computers that were
4 last accessed on November 16th, 2012, and October 19th, 2012.

5 A Correct.

6 MS. WHALEN: No further questions.

7 THE COURT: I'm sorry, did you say you are finished?
8 Ms. Whalen?

9 MS. WHALEN: I'm sorry. I said no further
10 questions. I apologize.

11 THE COURT: Thank you.

12 All right. Any redirect?

13 MR. TUCKER: No, Your Honor.

14 THE COURT: Thank you, sir. You may step down.

15 Next witness.

16 (Witness steps down.)

17 THE COURT: Who is the next witness?

18 MS. NESTOR: Your Honor, the government calls Louis
19 DiPietro.

20 (Short pause.)

21 THE COURTROOM DEPUTY: Good afternoon, sir. I'm
22 going to ask you to please step my way. I'm going to ask you
23 to please take the stand and raise your right hand.

24 (Witness takes the stand.)

25 (Witness takes the witness stand.)

DIPIETRO - DIRECT - MS. NESTOR

1 LOUIS DIPIETRO, called as a witness, having been first duly
2 sworn/affirmed, was examined and testified as follows:

3 follows:

4 THE WITNESS: I do.

5 THE COURTROOM DEPUTY: Thank you. Please have a
6 seat.

7 State and spell your name for the record.

8 THE WITNESS: Sure. It's Louis DiPietro, L-O-U-I-S,
9 DiPietro, D-I-P-I-E-T-R-O.

10 THE COURT: Go ahead, Ms. Nestor.

11 MS. NESTOR: Thank you, Your Honor.

12 DIRECT EXAMINATION

13 BY MS. NESTOR:

14 Q Good afternoon, Mr. DiPietro.

15 A Good afternoon.

16 Q Where do you work?

17 A I work for Panera Bread Company.

18 Q What is Panera?

19 A Panera is a bakery/cafe restaurant concept that owns,
20 operates, and franchises bakery cafes.

21 Q Where are you based out of?

22 A Needham, Massachusetts.

23 Q And where are Panera's headquarters?

24 A In St. Louis, Missouri.

25 Q What do you actually do for Panera?

DIPIETRO - DIRECT - MS. NESTOR

1 A I am the general counsel.

2 Q How long have you been with Panera?

3 A Twelve years roughly.

4 Q I'm sorry?

5 A Just over 12 years.

6 Q How long have you been general counsel at Panera?

7 A About last three and a half years.

8 Q So what is your role being general counsel of Panera?

9 A I manage the legal department at Panera, supervise
10 attorneys, and am responsible for all legal matters related to
11 Panera Bread Company.

12 Q And prior to being general counsel, what was your role at
13 Panera?

14 A I was the deputy general counsel and I had similar
15 duties.

16 Q Between January 2010 and July 2017, was Panera a public
17 company?

18 A Yes.

19 Q As part of your responsibilities as general counsel, back
20 before 2017, were you familiar with the earnings process for
21 Panera?

22 A Yes.

23 Q Please explain what your role was.

24 A I participated in the drafting and reviewing and approval
25 of quarterly earnings releases through that entire process.

DIPIETRO - DIRECT - MS. NESTOR

1 Q Did you also participate in the drafting and approval of
2 other press releases?

3 A I -- other nonfinancial press releases, I would approve
4 them. I wasn't as actively involved in the drafting of those
5 press releases.

6 Q How did the earnings process at Panera work generally?

7 A Once the financial quarter ended, the financial results
8 would be finalized, and then between that time and the
9 ultimate earnings release, we would begin the process of
10 finalizing the information to be included in the press
11 release, press releases would then be drafted, they would be
12 drafted, rewritten, then would go through a number of
13 different levels of approval through internal and external
14 advisors. Once the press release was then completed, it would
15 then be sent to -- for distribution.

16 Q And how -- would there be a significant steps in the
17 approval process once it was finalized?

18 A Yes. It would have to be approved by the finance
19 department; the chief financial officer; myself, the general
20 counsel; as well as external auditors and external legal
21 counsel.

22 Q Generally speaking, what information is included in the
23 earnings press releases?

24 A Earnings press release would -- first and foremost, it
25 would include the main information, included would be the

DIPIETRO - DIRECT - MS. NESTOR

1 financial results, so the revenues, profits, loss -- or loss,
2 as well as other important key financial metrics which my be
3 important in the industry, so comparable store sales or
4 margins or other related financial metrics.

5 Q And what's a point of releasing earnings?

6 A It is the way that we distribute financial results to the
7 investment community. We -- that is the manner in which,
8 through that and through SEC filings, we announce to the
9 public how we performed in a given quarter.

10 Q Is it relevant to your shareholders?

11 A Yes.

12 Q And explain that, please.

13 A So we would announce our -- the date that we would be
14 releasing earnings so that that was on the calendar clearly of
15 our analysts and/or the investor community. We would then
16 release our earnings and they would anticipate those, they
17 would -- we would issue guidance previously of what we
18 expected throughout the year so investors were interested in
19 seeing whether or not we delivered according to what we told
20 investors we expected would occur, so it was a very important,
21 and it was followed by a conference call with investors and
22 analysts the day after we would release those earnings to ask
23 questions about them.

24 Q Was the integrity of earnings releases important to
25 Panera?

DIPIETRO - DIRECT - MS. NESTOR

1 A Yes.

2 Q Why?

3 A It was important because it was -- because our financial
4 results were first and foremost important to shareholders.

5 Additionally, it was important for the integrity of
6 our earnings and our financial results that we had an
7 opportunity to disclose and to discuss with franchise -- I'm
8 sorry -- with shareholders, how our results were, how we were
9 performing and how we were -- whether or not we were meeting
10 the expectations of investors and if our business was
11 performing well generally.

12 Q Were the earnings releases kept confidential within
13 Panera?

14 A Yes.

15 Q Tell us about how that requirement existed within Panera
16 generally.

17 A Well, we had a broader policy of confidentiality,
18 particularly around earnings releases and financial results,
19 given the materiality of the information. So individuals who
20 work for the company were required to keep the information
21 confidential and to also not use that information as well.
22 They could not use the information regarding earnings to trade
23 or otherwise participate, sell, or buy stock, or disclose that
24 information, period, whether or not for the intent of making a
25 sale or a purchase, but keeping that confidential for the

DIPIETRO - DIRECT - MS. NESTOR

1 purposes I just discussed about the integrity of the markets
2 and given the legalities related to the disclosure material
3 information of the sort.

4 Q Now, once your earnings releases were drafted, what
5 happened to them?

6 A Once they were drafted and approved, we would send them
7 to the third party that was responsible for issuing those
8 press release widely the wire.

9 Q Which newswires have you used in the past?

10 A Marketwired, PR Newswire. Those were the two that I'm
11 recalling specifically.

12 Q Did you pay these newswires to distribute your press
13 releases?

14 A Yes, we did.

15 Q Did you have an expectation of once you provided the
16 press release to the newswire, it would keep it confidential?

17 A Yes.

18 Q Why use newswires?

19 A They are -- they are really built to widely disseminate
20 information across the press. We would not have the
21 capabilities necessarily, other than through an e-mail list or
22 something similar to that. It was -- we were required by the
23 SEC to publicly disclose in a manner that is reasonably likely
24 to reach shareholders, and that was the most efficient way to
25 make sure that that occurred.

DIPIETRO - DIRECT - MS. NESTOR

1 Q Now you talked about public disclosure. Was there a
2 requirement that the public disclosure be at the same time?

3 A Yes.

4 Q And why is that?

5 A It's to -- for the -- to make sure there's a level
6 playing ground. There's -- I mean, it's -- you know, there's
7 actually a regulation called fair disclosure so everyone
8 receives the information and no one has that information
9 before anyone else.

10 Q Did you learn at some point that the newswire you had
11 been using to distribute Panera's press releases had been
12 compromised?

13 A Yes. I actually think I read it through the news before.
14 That was the first time I heard about it.

15 Q Do you remember which newswire it was, sitting here
16 today?

17 A I don't remember which one it was exactly.

18 Q What did you do in response to learning this information?

19 A I think -- I think I reached out to -- or I know I
20 reached out to our finance group, the folks who were
21 responsible for reporting results externally, asked them if
22 they had seen it; and then obviously wanted to make sure that
23 there was nothing that we had done or was related to us that
24 had been compromised to make sure that there was no data issue
25 with respect to the information as we maintained it. That was

DIPIETRO - CROSS - MR. BRILL

1 what I had thought about immediately, and it became pretty
2 clear that this was something that happened outside of our
3 reach.

4 MS. NESTOR: No further questions, Your Honor.

5 THE COURT: Any cross-examination for this
6 gentleman?

7 MR. BRILL: Just a few. Thank you, Judge.

8 CROSS-EXAMINATION

9 BY MR. BRILL:

10 Q Good afternoon, Mr. DiPietro.

11 A Yes.

12 Q How are you?

13 A Good. Thank you.

14 Q Just a couple things.

15 You just told us that you found out that the
16 newswire services had been intruded upon. I think you said
17 you read it in the news.

18 A Yes.

19 Q Did you read it -- do you have any recollection as to the
20 date? Was it in August of 2015?

21 A It was -- I believe that's around the time frame, yes.

22 Q Okay. And so is it fair to say that you had no knowledge
23 that the newswire services that Panera Bread was utilizing had
24 been compromised until that point?

25 A I don't know -- I know at one point we may have received

DIPIETRO - CROSS - MR. BRILL

1 a call from somebody. I don't recall when that was that
2 something had occurred, but I believe it was during that time
3 frame when I read it online, what was the first time I had
4 heard about it.

5 Q Okay.

6 Would it be fair to say, Mr. DiPietro, that as
7 someone who is general counsel for Panera Bread, that you
8 would -- in using newswire services, that you had an
9 expectation that your data -- Panera Bread's data -- would be
10 secure?

11 A Yes.

12 Q And would it be fair to say that if that data was indeed
13 compromised, that would be something that you, as general
14 counsel for Panera Bread, would want to know about?

15 A Yes.

16 Q You told us that there is a process in drafting press
17 release earnings statements or earnings statement press
18 releases, correct?

19 A Yes.

20 Q Yes.

21 And my question to you is that there comes a point
22 where Panera Bread will submit that press release to a
23 newswire service for distribution; is that a fair statement?

24 A Yes.

25 Q In the course -- in your involvement in that process of

DIPIETRO - CROSS - MS. FELDER

1 drafting and submitting, do you -- have you had experiences
2 where you have edited that press release once it's been
3 submitted?

4 A I am aware where we have edited some of the text around
5 potentially guidance for some of the information. The actual
6 results, one, we wouldn't send them along until the actual --
7 in our EPS, the earnings per share number, was final.

8 Q But you would have the power, so to speak, to edit a
9 document even after you submitted it to the press release.

10 A Until it was issued, yes.

11 MR. BRILL: Thank you so much, Mr. DiPietro.

12 THE COURT: Ms. Felder?

13 MS. FELDER: Yes, Your Honor.

14 CROSS-EXAMINATION

15 BY MS. FELDER:

16 Q Good afternoon.

17 A Good afternoon.

18 Q Just a few questions for you.

19 You testified that there is an earnings process that
20 you undertake, correct?

21 A Yes.

22 Q And a part of that process is evaluating when to make
23 information public in terms of the earnings calendar, correct?

24 A Yes.

25 Q And there are quarterly earnings calendar?

PROCEEDINGS

1 A They were -- yes. Quarterly, we would release earnings.

2 Q You would release it quarterly; however, investors know
3 that the schedule is forthcoming, correct?

4 A Yes.

5 Q And because there is this process, and there's an
6 earnings calendar, it's anticipated that your company would,
7 at some point, publish the earnings reports.

8 A Yes.

9 Q And there's nothing about that calendar that is
10 confidential, correct?

11 A The calendar itself, no.

12 Q There's nothing about the calendar that contains material
13 information?

14 A Not that -- not the quarterly scheduled financial
15 results, no.

16 Q And it is routine practice, you would say, or maybe you
17 would agree, that investors in the investor community
18 anticipates these earnings calendars in earnings reports,
19 correct?

20 A Yes.

21 MS. FELDER: No further questions.

22 THE COURT: Thank you.

23 Anything further, Ms. Nestor?

24 MS. NESTOR: No, thank you, Your Honor.

25 THE COURT: Thank you very much. You may step down.

PROCEEDINGS

1 (Witness steps down.)

2 THE COURT: Folks, I have a little piece of business
3 to attend to, so we're going to take an early lunch. We will
4 resume at two o'clock. Enjoy your lunch. Do not discuss the
5 case.

6 THE COURTROOM DEPUTY: All rise.

7 I'm just going to remind the jurors, please, to
8 bring your notes with you.

9 (Jury exits.)

10 THE COURT: Have a seat, folks. We'll have this
11 fellow in here momentarily.

12 (Short pause.)

13 (Juror enters.)

14 THE COURT: Good afternoon, sir. Have a seat.
15 Just for the record, your name is Lioz Hagler.

16 THE JUROR: Hagler, yes.

17 THE COURT: Ms. Mulqueen brought to my attention
18 earlier this morning that there was something you wanted to
19 speak to me about given the nature of the proceedings and the
20 rules of the Court. This all has to be done in open court.

21 So what's on your mind?

22 THE JUROR: On Friday, unfortunately -- Thursday,
23 rather, one of the breaks in the lunch -- not lunch break, the
24 breaks in the jury room, somebody asked -- not asked, but it
25 was informal discussion about -- well, informal discussion on

PROCEEDINGS

1 basically different things, and one thing, you know, vague and
2 tangentially related to the case, but not exactly, like, you
3 know, how many witnesses are we going to have today, you know,
4 et cetera, et cetera, and I responded carelessly,
5 unfortunately. My response to one of those inquiries -- one
6 of those statements was -- this was -- sorry. Sorry. Take it
7 back a step. This is when Mr. -- Igor -- the main witness.
8 I'm drawing a blank now because I'm kind of nervous.

9 THE COURT: Mr. Dubovoy?

10 THE JUROR: Dubovoy. Thank you. Basically, I
11 responded -- I'm trying to think exactly what my response was,
12 but it was along the lines of -- well -- I don't want to
13 misquote, since I'm, you know, here. It was along the lines
14 of, he's the -- you know, the main -- the key prosecution
15 witness, so we might be here -- he's probably going to be here
16 all day, and that was pretty much it.

17 After I said it, I kind of, you know, realized that
18 that was a very dangerous statement. How many people heard
19 it? I don't know. I mean, we've had -- I won't say -- not to
20 throw anybody else under the bus, but others have been saying,
21 you know, small things. Even today, somebody mentioned
22 something along the lines of, is it -- was the witness saying
23 backslash versus regular slash. Now, is it -- does it impact
24 the case? I can't say. But I understand that I made a very
25 dangerous statement, and hopefully not fatal statement, on

PROCEEDINGS

1 Friday -- Thursday, and I just, you know, in all good
2 conscience, I couldn't keep it from the Court.

3 THE COURT: Well, we're very grateful for that.
4 That takes a little courage --

5 THE JUROR: Yeah, and I understand the
6 ramifications, unfortunately.

7 THE COURT: They can be, as you said, deadly.

8 THE JUROR: Yes.

9 THE COURT: Let me ask you a couple questions.

10 That was the sum and substance of your comment, that
11 we may be here all day?

12 THE JUROR: Well, the part that I felt uncomfortable
13 in retrospect saying was the fact that it was the key
14 prosecution witness, therefore, we'll be here all day. It
15 wasn't that he would be here all day. It was the fact that I,
16 kind of, referenced -- I felt uncomfortable, you know, again,
17 after the fact that I said, you know, key prosecution witness,
18 and I didn't want that, you know, that -- I was fearful that
19 that could have been leading.

20 THE COURT: Identifying, in your view, as a key
21 prosecution witness?

22 THE JUROR: The key prosecution witness, yeah,
23 right.

24 THE COURT: Was there any discussion that that
25 triggered?

PROCEEDINGS

1 THE JUROR: No, no. I don't think there was a reply
2 from anybody. I don't know how many heard it either. That's
3 the other thing.

4 THE COURT: Okay. And you don't recall how many
5 people, if any, may have heard it.

6 THE JUROR: I would imagine, and honestly, you know,
7 pondering this all weekend, I don't remember who put the
8 initial query out there, so I would assume that person, you
9 know, would have. I could see, you know -- I was toward the
10 right side of the jury room -- the jury break room, so I
11 would -- I could envision, you know, at least four or five
12 people hearing it.

13 THE COURT: Well, it's apparent to me, Mr. Hagler,
14 that you are, despite this misstep, you are scrupulously
15 attempting to abide by my instructions. Please do better as
16 we go forward.

17 THE JUROR: Understood.

18 THE COURT: I will make it clear to everyone that
19 when I say no discussion about the case, I don't mean just
20 about the merits of the specific testimony, any aspect of the
21 case at all because it can trigger an exchange that would be
22 unfortunate --

23 THE JUROR: Right.

24 THE COURT: -- and not called for.

25 So I thank you for your time. Let's close the book

PROCEEDINGS

1 on this, put it in the past, and please continue to abide by
2 my instructions.

3 THE JUROR: Thank you. I apologize.

4 THE COURT: Thank you, sir.

5 THE COURTROOM DEPUTY: Okay.

6 (Juror exits.)

7 THE COURT: Unless anybody has any postmortems, I
8 think we will leave it at that. See you at two o'clock.

9 MR. GOPSTEIN: Your Honor, just one --

10 THE COURT: One postmortem.

11 MR. GOPSTEIN: -- point with regard to this
12 afternoon's witnesses.

13 THE COURT: Yes.

14 MR. GOPSTEIN: In their letter last night, defense
15 counsel had requested a continuance for Thomas Carocci who --
16 I think he's our fourth scheduled witness for the afternoon,
17 I'm not sure if he will get on any way, on the grounds that we
18 have produced additional material over the weekend.

19 THE COURT: I understood your colleague here to say
20 we're going to delay his appearance.

21 MR. GOPSTEIN: I've spoken with Ms. Whalen and
22 Mr. Brill, and Ms. Whalen advised that she was going to defer
23 to Mr. Brill. We were okay with delaying it, but I spoke with
24 both of them in court today and Mr. Brill advised that he was
25 fine with going forward with Mr. Carocci's testimony today if

PROCEEDINGS

1 we get to it, and so I wanted to put that on the record.

2 THE COURT: All right. Very well. See you at
3 two o'clock.

4 MR. GOPSTEIN: Thank you, Your Honor.

5 (Lunch recess taken.)
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

PROCEEDINGS

1 A F T E R N O O N S E S S I O N

2 (The following takes place out of the presence of
3 the jury.)

4 THE COURT: You've got a witness for us?

5 MR. TUCKER: Yes, the agent is getting him.

6 (Witness enters courtroom.)

7 THE COURT: Is this Mr. Ferguson?

8 THE WITNESS: Yes.

9 THE COURT: Come on up.

10 Have a seat.

11 (Witness takes the stand.)

12 (Jury enters courtroom.)

13 THE COURT: Please be seated, everyone.

14 Next witness please.

15 MR. TUCKER: Yes, Your Honor, the government calls
16 Alistair Clark Ferguson.

17 (Witness sworn by the clerk.)

18 THE CLERK: Please state and spell your name for the
19 record.

20 THE WITNESS: Sure, Alistair Clark Ferguson,
21 A-L-I-S-T-A-I-R, F-E-R-G-U-S-O-N.

22 THE COURT: Mr. Tucker.

23 MR. TUCKER: Thank you, Your Honor.

24 (Witness takes the witness stand.)

25 ALISTAIR CLARK FERGUSON, called as a witness, having been

ALISTAIR FERGUSON - DIRECT - MR. TUCKER

1 first duly sworn/affirmed, was examined and testified as
2 follows:

3 DIRECT EXAMINATION

4 BY MR. TUCKER:

5 Q Good afternoon, Mr. Ferguson.

6 A Hello.

7 Q Where are you employed, sir.

8 A I work at West Corporation.

9 Q What is West Corporation, very generally?

10 A West is a company that provides communication services
11 quite broadly.

12 Q How long have you worked at West?

13 A Since April 2018.

14 THE COURT: Excuse me. Let's pull the microphone
15 closer.

16 (Pause.)

17 Q My question was how long have you worked at West,
18 Mr. Ferguson?

19 A Since April 2018.

20 Q Before that where did you work?

21 A I worked at NASDAQ Corporation.

22 Q When did you start at NASDAQ?

23 A February 2016.

24 Q And before you went to work at NASDAQ where did you work?

25 A I worked at Marketwired.

ALISTAIR FERGUSON - DIRECT - MR. TUCKER

1 Q How did you come to work at NASDAQ from Marketwired?

2 A NASDAQ acquired Marketwired in February 2016.

3 Q When did you join Marketwired initially?

4 A In January 2014.

5 Q Does Marketwired still exist in some form today?

6 A The company does not, the technology has been integrated
7 into NASDAQ and now West Services.

8 Q Focusing your attention of the period of time between
9 January 2014 and February 2016 when you were employed by
10 Marketwired, what were your responsibilities?

11 A I was responsible for the infrastructure and the security
12 program, my title was VP Infrastructure and Chief Information
13 Security Officer.

14 Q When you say VP --

15 A Vice president, I'm sorry.

16 Q Did you have employees under your supervision?

17 A Yes, approximately 35.

18 Q Where do you live, sir?

19 A I live in Ottawa, Canada.

20 Q What was Marketwired's general business?

21 A Marketwired provided press release services for clients.

22 Q What kinds of services?

23 A So, we help people get messages out about their earnings,
24 about leadership changes, that kind of thing, so helping them
25 meet their regulatory obligations and support communications.

ALISTAIR FERGUSON - DIRECT - MR. TUCKER

1 Q And that was in part by distributing press releases?

2 A Yes.

3 Q Where was Marketwired based?

4 A Toronto, Canada.

5 Q Did Marketwired have any competitors or peer companies
6 that offered similar services?

7 A So, Business Wire and PR Newswire would be a couple in
8 North America, yeah.

9 Q Did Marketwired specialize in any particular sector of
10 businesses for issuing press releases?

11 A No, it was quite broad across quite a number of sectors.

12 Q How did Marketwired's customers provide press releases to
13 Marketwired for distribution?

14 A So, customers would access our service through a browser,
15 connect over the internet to our portal. They'd log in,
16 authenticate themselves with an ID and a password and then
17 once they were in the portal they would provide the
18 information when they wanted the release to be published and
19 the things like the title, headline and the body of the
20 release.

21 Q All right. Just to unpack that a bit, was that portal
22 referred to as the CS3 portal?

23 A Yes.

24 Q Please tell the jury what the CS3 portal was?

25 A CS3 is the name of the press release services which we

ALISTAIR FERGUSON - DIRECT - MR. TUCKER

1 provided for clients in the U.S. region.

2 Q Now, you testified that Marketwired employees had to log
3 in to the CS3 portal before they could upload press releases?

4 THE COURT: Did you say employees?

5 Q I'm sorry, Marketwired customers had to log into the
6 Marketwired portal before they could upload press releases?

7 A That's correct.

8 Q They'd need a user name and a password?

9 A Yes.

10 Q And the different preferences that Marketwired customers
11 were able to choose when they uploaded press releases, one of
12 those was when a press release would be published?

13 A Yes.

14 Q And were they also able to select how the press releases
15 would be distributed?

16 A Yes. So, they would select from a variety of end points,
17 typically under their contract they would have predetermined a
18 group of end points, but the press releases would go out to
19 end points which are media channels and then out through email
20 and out through an investor relations website.

21 Q Just so it is clear, those end points could include news
22 websites and news publications among other things?

23 A Yes.

24 Q And users of the CS3 applications could also make
25 formatting choices about the press releases?

ALISTAIR FERGUSON - DIRECT - MR. TUCKER

1 A Yes.

2 Q Once they'd done all that, what was the next step in the
3 upload process?

4 A So, in interacting with portal they'll upload the body of
5 the content and then they'll click confirm and that would
6 signal our editorial team that a new release had been
7 submitted and required attention.

8 Q And what would happen after that?

9 A So, our editorial team would review the press release for
10 any kind of spelling mistakes, incorrect information,
11 formatting issues; with things like financial tables we wanted
12 to make sure that it was really clear in the final product.

13 Q Would the Marketwired editorial staff make substantive
14 changes to press releases sometimes?

15 A Sometimes but it would be -- once their job was done it
16 would be returned to the client for approval.

17 Q If substantive changes were made, how did that process
18 work?

19 A They would edit the content within the web portal and
20 save the changes and return a proof to the client for review.

21 Q Would those edits be made in conjunction with the client?

22 A Yes.

23 Q Once a press release was ready to be released and the
24 appointed time of distribution arrived, what happened then,
25 Mr. Ferguson?

ALISTAIR FERGUSON - DIRECT - MR. TUCKER

1 A At the appointed time the unencrypted information would
2 be sent out over the media channels to each of the end points
3 that were selected for the release.

4 Q So, at that point Marketwired would distribute the final
5 press releases?

6 A Yes.

7 Q Is that right?

8 A Yes.

9 Q Was it important for Marketwired to ensure that the draft
10 press releases it received were kept confidential between that
11 initial time of upload and the appointed release time to the
12 public?

13 A Yes.

14 Q Why?

15 A It's part of the confidentiality agreement that we had
16 with the customers that their information would be maintained
17 confidential until the appointed time of release.

18 Q Why was that important?

19 A It is important for the clients to have their information
20 disclosed simultaneous to investors and shareholders under
21 regulatory laws and so that's why we were a trusted provider
22 of the service in meeting those obligations.

23 Q Was that confidentiality incorporated into the end user
24 agreements that Marketwired had with its customers?

25 A Yes, it was.

ALISTAIR FERGUSON - DIRECT - MR. TUCKER

1 Q Mr. Ferguson, in that pile in front of you are some
2 documents that have been marked for identification as
3 Government's Exhibits 831 through 842. Do you see that pile,
4 sir?

5 A Yes.

6 Q What are these documents generally?

7 A These are copies of press releases that were submitted
8 into our CS3 system.

9 Q So, these are the draft press releases --

10 A Yes.

11 Q -- as initially uploaded by Marketwired employees to
12 Marketwired system?

13 A By customers into the CS3 system, yes.

14 Q And did you provide those to the government at the
15 government's request?

16 A Yes, I did.

17 Q And how did you go about extracting or obtaining these
18 draft press releases from the Marketwired systems?

19 A So, we -- the information is maintained in a database
20 system and so we applied a query on the specific information
21 that the government requested and extracted the files,
22 provided them to you.

23 Q Are these true and accurate copies of those press
24 releases from the Marketwired archives, Government's Exhibits
25 831 through 842?

ALISTAIR FERGUSON - DIRECT - MR. TUCKER

1 A Yes, they are.

2 MR. TUCKER: Your Honor, the government moves to
3 admit Government's Exhibits 831 through 842.

4 THE COURT: Any objection?

5 MS. BRILL: There is, Your Honor. May we have voir
6 dire or explain at the bench?

7 THE COURT: Well, if the voir dire is related to
8 your objection --

9 MS. BRILL: The objection is it is being admitted
10 for what they were described to be, yes.

11 THE COURT: I think you better come on over.

12 (Continued on next page.)
13
14
15
16
17
18
19
20
21
22
23
24
25

SIDEBAR CONFERENCE

1 (The following takes place at side-bar.)

2 THE COURT: Yes, ma'am.

3 MS. BRILL: Before I start, that similar pile is in
4 front of the witness?

5 MR. TUCKER: Correct, identical.

6 MS. BRILL: Your Honor, I will believe that the
7 government just got from the witness that these will be the
8 press releases as uploaded by the client. In addition, the
9 government will from this witness elicit -- hopes to elicit
10 foundation for a chart that will include a couple of items;
11 one of the items will be the time that the press release was
12 released to the public but one of the items will also be the
13 time that the press release was uploaded by the client.

14 So, there will be a column for the time it was
15 uploaded, there will be a column for the time it was released,
16 there will be a column of the press releases that were
17 uploaded and there will be a column of the press releases that
18 were released. And so it is -- but I believe that there are
19 indications from the discovery that we have gotten and from my
20 study of those documents that these documents in front of Your
21 Honor are not copies. I understand that's what the witness
22 said but there are indications that they may not be copies of
23 what was uploaded by the client at the time that's going to be
24 on the chart that the government seeks to admit.

25 THE COURT: They are not what he said they were?

SIDEBAR CONFERENCE

1 MS. BRILL: They're not what -- they may not be --
2 let me put it this way, they may not be what the government
3 elicited they were which is the press releases that were
4 uploaded at the particular time that's going to be on the
5 chart.

6 THE COURT: Well, ask him, you can have some voir
7 dire.

8 MS. BRILL: Some voir dire.

9 (End of side-bar.)

10 (Continued on the next page.)
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

FERGUSON - VOIR DIRE - MS. BRILL

1 (In open court.)

2 THE COURT: Go ahead, Ms. Brill.

3 MS. BRILL: Your Honor, can I go to the podium?

4 THE COURT: Of course.

5 MS. BRILL: Before I get to the podium can I have
6 Exhibit 405 that's already in evidence?

7 (Pause while counsel confer.)

8 VOIR DIRE EXAMINATION

9 BY MS. BRILL:

10 Q Mr. Ferguson, in front of you is a pile of documents
11 numbered 831 to 842, is that right?

12 A Yes.

13 Q And you've testified in answers to the prosecutor's
14 questions that those are the press releases as uploaded by the
15 client, right?

16 A That's correct.

17 Q When they went to the portal and said confirmed?

18 A Yes.

19 Q And those are maintained by your company, whether it was
20 Marketwired or NASDAQ or West as it is now; is West also a
21 wire company?

22 A We are, yes.

23 Q All right. So, I want to show you what's already been
24 marked as Exhibit 405 and that is, as you can see, I'm sure
25 there's a way to make it a little bit smaller --

FERGUSON - VOIR DIRE - MS. BRILL

1 MS. BRILL: Everybody can see this, it is an
2 exhibit.

3 THE CLERK: Okay.

4 Q As everybody can see, this is a TIBCO press release; is
5 that what it looks like from the top?

6 A Yes.

7 Q And on the bottom there's some markings?

8 A Yes.

9 Q And that looks like something that came from TIBCO
10 perhaps that's on the document as it is uploaded to your
11 company?

12 A It looks like the name of the document as it was printed.

13 Q It looks like the name of the document as it was printed?

14 A The string of characters I'm seeing here looks like a
15 Word document name of the file.

16 Q But does it look like it was part of the document?

17 A That is -- what I mean is I think it looks like in the
18 way that that file was generated that it is the name of the
19 file of the document.

20 Q And that document -- Exhibit 405 is a document that was
21 extracted from a computer in the Ukraine, that is what
22 Exhibit 405 is, and those markings are on the bottom as
23 highlighted by the government.

24 MR. TUCKER: Objection, Your Honor.

25 THE COURT: Can we have a question?

FERGUSON - VOIR DIRE - MS. BRILL

1 Q Can you look at Exhibit 831.

2 A Yes.

3 Q Do you see those same markings at the bottom of
4 Exhibit 831?

5 A Yes, it is a TIBCO press release.

6 Q And you see the same markings on the bottom?

7 A Yes.

8 Q Now, look at Exhibit 832, that's an exhibit from Edwards
9 Corporation or some -- Edwards something, right?

10 A Yes.

11 Q And that exhibit does not have the markings on the
12 bottom?

13 A Right.

14 Q What about that exhibit indicates to you that it was
15 uploaded?

16 A The fact that we've taken it out of our system from the
17 database in the area where the client had uploaded it is how
18 this is -- how I can verify that this is from the client.

19 Q All right. So, you took it out of the area where things
20 are uploaded?

21 A Yes, the database, CS3.

22 Q I want you to look at one more document and then I do
23 just have a very few questions about that.

24 So, we see from a TIBCO document, from the area that
25 it was uploaded that there's markings on the bottom, you see

FERGUSON - VOIR DIRE - MS. BRILL

1 from the Edwards document that there aren't markings on the
2 bottom when it is uploaded; can you look at Exhibit 840.

3 A Got it.

4 Q 840 is also a TIBCO press release, right?

5 A Yes.

6 Q Different quarter, different contents, different press
7 release, right?

8 A Yes.

9 Q But that has no markings on the bottom, right?

10 A That's right.

11 Q So, for some reason TIBCO uploaded one with markings and
12 one without markings?

13 A Yes.

14 Q You talked about how things get changed in your database;
15 do you maintain those changes in another area?

16 A The changes are maintained in the CS3 database itself.

17 Q Is the CS3 database what you searched in order to come up
18 with documents 831 to 842?

19 A Yes, it is.

20 Q So, you went to the CS3 -- there's no other database,
21 it's just the CS3 database?

22 A That's correct.

23 Q And they have the documents that are uploaded and the
24 documents that are edited and then resubmitted, for lack of a
25 better word?

FERGUSON - VOIR DIRE - MS. BRILL

1 A Yes.

2 Q And there's no way to distinguish between which documents
3 were uploaded and not changed and which documents were
4 uploaded and changed in the CS3 database, correct?

5 A The system itself has an audit log which maintains the
6 changes so we have a trail of information indicating when
7 information in a press release is changed.

8 Q So, when did the information on the press release that's
9 exhibit for identification 831 change and the markings were
10 removed?

11 A After the client uploaded the document and they clicked
12 confirm the editorial team would have done the cleanup on the
13 document.

14 Q And then would it not have replaced the document in this
15 CS3 database, as you just testified?

16 A The document would have been adjusted, it would not have
17 been replaced. There would be a new version of the
18 information maintained in the database.

19 Q Would the old version of the information be maintained in
20 the database?

21 A Yes.

22 MR. TUCKER: Your Honor, could we have a breach side
23 bar?

24 THE COURT: I don't think it is necessary.

25 Do you have anything else?

FERGUSON - DIRECT - MR. TUCKER

1 MS. BRILL: Hold on. (Pause.)

2 Q The TIBCO press release for the quarter that's in front
3 of you that's marked as exhibit for identification 831.

4 A Yes.

5 Q How many of those press releases are in the CS3
6 database -- would be in the CS3 database?

7 THE COURT: That's not proper voir dire, with all
8 due respect, Ms. Brill.

9 I'm going to receive the documents. Let's go. 831
10 to 842 now in evidence.

11 (Government Exhibit 831 through 842, were received
12 in evidence.)

13 MR. TUCKER: Thank you, Your Honor. May we publish?

14 THE COURT: Go ahead.

15 DIRECT EXAMINATION

16 BY MR. TUCKER:

17 Q So, Mr. Ferguson, looking at 831 for a minute, just so it
18 is clear for the record, the documents that you, and I guess
19 West today, but were extracted from Marketwired systems, those
20 were provided in Word document form right?

21 A Yes.

22 Q So a .doc or .docx, right?

23 A That's correct.

24 Q They certainly weren't provided to the government printed
25 out with Government's Exhibits?

FERGUSON - DIRECT - MR. TUCKER

1 A No.

2 Q Now, each one of those Word documents, electronic
3 documents that was provided to the government had a file name
4 associated with it, right?

5 A Correct.

6 Q Was this the file name associated with this particular
7 TIBCO press release?

8 A That's my understanding, yes.

9 Q And that's based on your review and what you produced,
10 right?

11 A Yes.

12 Q So, these other files now in evidence, 832 for instance,
13 it would have a file name also, right?

14 A Yes.

15 Q We just didn't label it at the bottom?

16 A Correct.

17 Q So, all you can tell from this particular footer is that
18 this was the file name associated with this particular draft
19 press release, is that right?

20 A Yes.

21 Q Thank you.

22 Mr. Ferguson, in front of you is a pile of
23 documents -- and Ms. Mulqueen will bear with me for a
24 moment -- these documents have been marked for identification
25 as Government Exhibits 4541, 4542, 4543, 4544, 4551, 4554,

FERGUSON - DIRECT - MR. TUCKER

1 4592, 4594, 4620, 4625, 4674 and 4675; is that right,
2 Mr. Ferguson?

3 A Yes.

4 Q And you've had a chance to review those prior to your
5 testimony here today?

6 A I have.

7 Q What are these documents generally?

8 A These documents are the final releases on behalf of our
9 clients.

10 Q Are these printed off of Marketwired's website?

11 A Yes.

12 Q And did you personally print these and mark these?

13 A No.

14 Q Did you personally verify that these are in fact the
15 final press releases as stored in the Marketwired website?

16 A I did.

17 Q And Mr. Ferguson, these press releases reflect
18 distribution dates of the final press releases?

19 A Yes.

20 Q Those reflect distribution dates and times?

21 A They do.

22 Q Does Marketwired or its subsequent companies, do they
23 edit the press releases on the Marketwired system after they
24 are distributed?

25 A No.

FERGUSON - DIRECT - MR. TUCKER

1 Q So, if these were printed out within the last few weeks,
2 you would expect these to be the same press releases as they
3 were distributed during their distribution times on the
4 documents?

5 A Yes.

6 MR. TUCKER: Your Honor, the government moves to
7 admit that series of exhibits. I can read them again if the
8 Court wishes.

9 THE COURT: I think -- Ellie, you have them?

10 THE CLERK: Yes, I believe I do.

11 THE COURT: Madame?

12 MS. BRILL: To these documents, no objection, Your
13 Honor.

14 THE COURT: Received.

15 (Government Exhibit 4541, 4542, 4543, 4544, 4511,
16 4554, 4592, 4594, 4620, 4625, 4674, and 4675, were received in
17 evidence.)

18 MR. TUCKER: Thank you, Your Honor.

19 May we publish?

20 THE COURT: Go right ahead.

21 Q All right. So, once again, Mr. Ferguson, this was a
22 series of final press releases. I am just going to show you
23 one example. This is what's in evidence now as Government's
24 Exhibit 4674, is that right?

25 A Yes.

FERGUSON - DIRECT - MR. TUCKER

1 Q And is this final press release that corresponds to
2 what's in evidence as Government's Exhibit 831?

3 A Yes, it is.

4 Q So, it is the same date of distribution, June 28, 2012?

5 A Yes.

6 Q Same headline?

7 A Yes, it is.

8 Q So, that series of second documents, those are the final
9 press releases as issued from the draft press releases we
10 admitted a moment ago?

11 A That's correct.

12 MR. TUCKER: Just for the witness, Ms. Mulqueen.

13 Q I'm showing the witness what's been marked for
14 identification -- it is a CD marked Government's Exhibit 802.

15 Do you recognize that CD, Mr. Ferguson?

16 A I do.

17 Q What is it?

18 A This is the CD containing the files that we provided to
19 the government.

20 Q All right. What kind of files are on Government's
21 Exhibit 802?

22 A It would list all of our press releases from the time of
23 2009 through 2014 and the other documents that we've provided.

24 Q Does it include submission dates and times and
25 distribution dates and times for all the Marketwired's press

FERGUSON - DIRECT - MR. TUCKER

1 releases during that period?

2 A It does.

3 Q And did you personally extract all that data from
4 Marketwired systems?

5 A I supervised it and ensured it was correct.

6 Q Are these records kept by the Marketwired in the ordinary
7 course of business?

8 A They are.

9 Q How are they used by Marketwired?

10 A It's a history of our service to the client, so it would
11 be used for billing purposes as well as on request if there
12 was any confusion around what we -- how we had handled the
13 information, it would be available.

14 Q Is this data populated in Marketwired systems through a
15 manual or an automated process?

16 A Through an automated process.

17 Q Does that occur close in time to the events being
18 described?

19 A Yes.

20 Q And you personally verified the data on 802?

21 A I have.

22 Q Do you recognize your signature and the date on it?

23 A Yes.

24 MR. TUCKER: Your Honor, the government moves to
25 admit Government's Exhibit 802 and its contents into

FERGUSON - DIRECT - MR. TUCKER

1 evidence.

2 THE COURT: 802.

3 MS. BRILL: No objection.

4 THE COURT: Received.

5 MR. TUCKER: Thank you, Your Honor.

6 (Government Exhibit 802, was received in evidence.)

7 Q One question before we move on, Mr. Ferguson. The data
8 that's stored on 802, is that in Pacific time?

9 A It is.

10 Q Okay. Now, just for the witness, I'm going to show the
11 witness what's been marked for identification as 802-2.

12 THE CLERK: 802-2?

13 MR. TUCKER: Yes.

14 Q Do you recognize this chart, Mr. Ferguson?

15 A I do.

16 Q Did you make this chart?

17 A I did not.

18 Q Did you personally verify the information it contains?

19 A I did.

20 Q Is this derived from what's now in evidence as
21 Government's Exhibit 802?

22 A It is.

23 Q Is this a small excerpt of the data that's on there?

24 A That's correct.

25 Q Just so it is clear, have the times in this excerpt been

FERGUSON - DIRECT - MR. TUCKER

1 harmonized to Eastern time?

2 A Yes, that's correct.

3 MR. TUCKER: Your Honor, the government moves to
4 admit Government's Exhibit 802-2 into evidence.

5 THE COURT: Any objection?

6 MS. BRILL: Only subject to our previous objection
7 to the admission in evidence of the documents that are
8 referenced on the chart.

9 THE COURT: I see. Subject to that, 802-2 is now in
10 evidence.

11 (Government Exhibit 802-2, was received in
12 evidence.)

13 MR. TUCKER: Thank you, Your Honor.

14 May we publish?

15 THE COURT: Please.

16 MR. TUCKER: Okay.

17 Q So, now that the jury can see, Mr. Ferguson, so is this
18 the type of data that is stored on the CD now in evidence as
19 Government's Exhibit 802?

20 A Yes, it is.

21 Q So, it includes information like the distribution date
22 and time and the submission date and time?

23 A That's correct.

24 Q Just working from left to right, can you explain to the
25 jury what the significance is of the RowNum column is?

FERGUSON - DIRECT - MR. TUCKER

1 A Sure, that's just a row in the database system where this
2 record is provided, extracted from.

3 Q PRID, what's that?

4 A It's the press release ID.

5 Q Is that a unique identifier assigned by Marketwired?

6 A By the system for this release.

7 Q What's release type?

8 A That's the title that the client would have provided for
9 the release.

10 Q And the distribution date?

11 A It is the date and time that the client selected for the
12 release to be distributed.

13 Q And the source?

14 A The source is the name of the company that we're
15 providing the service to.

16 Q Just so it is clear, Mr. Ferguson, that is the
17 distribution date and time selected by the user and that is
18 the actual distribution time?

19 A Yes, it is.

20 Q CPID, what's that?

21 A It is an internal identifier for the company that we're
22 servicing, so in this case 126798 connects to TIBCO

23 Q Company name?

24 A In some cases the companies might have a department
25 within so we stored that separately in the database.

FERGUSON - DIRECT - MR. TUCKER

1 Q Submission date?

2 A That's the point in time when they uploaded the file
3 ahead of clicking confirm.

4 Q And so it is clear, Mr. Ferguson, these last two columns,
5 that's not Marketwired data, right?

6 A No, it is not.

7 Q Those are just corresponding exhibit numbers; is that
8 right?

9 A That's correct.

10 Q So, at this point this chart reflects the draft press
11 releases and the final distributed press releases that you
12 just authenticated?

13 A That's correct.

14 Q And, again, that just a small fragment of the data from
15 802?

16 A Correct.

17 MR. TUCKER: Just for the witness, Ms. Mulqueen.
18 I'm showing the witness what's been marked for identification
19 as Government's Exhibit 4627.

20 Q Do you recognize that document, Mr. Ferguson?

21 A I do.

22 Q What is it?

23 A There is an Oracle final press release.

24 Q Is this copied from the Marketwired website?

25 A Yes, it is.

FERGUSON - DIRECT - MR. TUCKER

1 Q Is this a fair and accurate copy of a final press release
2 that was distributed as shown here?

3 A Yes, it is.

4 MR. TUCKER: Your Honor, the government moves to
5 admit Government's Exhibit 4627 into evidence.

6 THE COURT: 4627, all right, just checking my notes.
7 , any objection?

8 MS. BRILL: No objection.

9 THE COURT: 4627 in evidence.

10 (Government Exhibit 4627, was received in evidence.)

11 MR. TUCKER: May we publish?

12 THE COURT: Go ahead, yes, sir.

13 Q So, for the record, Mr. Ferguson, this is an Oracle press
14 release dated December 18, 2013, is that right?

15 A That's correct.

16 Q And the distribution time on this was 16:04 east coast
17 time or 4:04 p.m. east coast time?

18 A Yes.

19 Q Now, Mr. Ferguson, I'm going to show you what's in
20 evidence as Government's Exhibit 323. Have you seen that
21 document prior to your testimony here today?

22 A Yes.

23 Q How did you see this document?

24 A The government provided it to me for review.

25 Q Based on your -- well, my first question, Mr. Ferguson,

FERGUSON - DIRECT - MR. TUCKER

1 is have you looked at the text in Government's Exhibit 423?

2 A Yes, I have.

3 Q And does this text correspond to the distributed press
4 release now in evidence, 4627?

5 A It does.

6 Q It's excerpt?

7 A It is an excerpt, I found it matching on both page four
8 of the --

9 Q Directing your attention to page four, just to look for a
10 couple of examples, there's some text here -- tell me if I
11 read this right: As of November 30th, 2013, approximately
12 \$2 million in estimated revenues related to hardware systems
13 support contracts.

14 THE COURT: I think you may have misspoken, I think
15 you meant 323, not 423, correct?

16 MR. TUCKER: I apologize, Your Honor, this is, for
17 the record, 323-A1.

18 Q And that text I just read, direct your attention back to
19 4627 which is in evidence, does that correspond to this text
20 here: As of November 30th, 2013, approximately \$2 million in
21 estimated revenues related to hardware systems support
22 contracts?

23 A That's correct.

24 Q And there's also references to Oracle Corporation, Q2,
25 2014, year-to-date financial results condensed?

FERGUSON - DIRECT - MR. TUCKER

1 A Yes.

2 Q Does that correspond to the fifth page of 4627, that same
3 text?

4 A Yes, it does.

5 Q And the numbers in the table, in 4627, do you see those
6 numbers in a different format but they're in 323-A1?

7 A Yes, it's sprinkled in, it is not formatted well but it
8 is in the section just under the title.

9 Q Just for the record, you tapped on your screen basically
10 in the middle of this screen shot; is that right?

11 A Yes.

12 Q Mr. Ferguson, based on your knowledge of Marketwired
13 systems, does this appear to be a final distributed
14 Marketwired press release that's in Government's
15 Exhibit 323-A1?

16 A It looks like the final release but it's not the final
17 release because it's not sort of containing fully human
18 readable, the fact that it's not formatted well and it has a
19 bunch of dashes suggests it has special characters in it.

20 Q When you say "special characters," what do you mean by
21 that?

22 A More system characters such as we would store it when it
23 is in the database.

24 Q In Marketwired's database?

25 A Yes.

FERGUSON - DIRECT - MR. TUCKER

1 MR. TUCKER: Just for the witness, Ms. Mulqueen.

2 THE CLERK: Just for the witness.

3 MR. TUCKER: Thank you.

4 Q I'm showing the witness what's been marked for
5 identification as Government's Exhibit 802-1.

6 A Yes.

7 Q Which is a two page document. Mr. Ferguson, is this an
8 excerpt from all of the uploaded data stored on that CD,
9 Government's Exhibit 802, corresponding to the Oracle press
10 release you were just testifying about?

11 A It is.

12 Q Is the first page as it appears in the database and the
13 second page harmonized to east coast time?

14 A Yes, that's correct.

15 MR. TUCKER: Your Honor, the government moves to
16 admit 802-1 into evidence.

17 THE COURT: Any objection?

18 MS. BRILL: No objection.

19 THE COURT: 802-1 in evidence.

20 (Government's Exhibit 802-1 received in evidence.)

21 MR. TUCKER: May we publish, Your Honor?

22 THE COURT: Go ahead.

23 Q So, turning to the second page of 802-1, this reflects a
24 submission time of 12/17/2013 at 10:34 a.m., is that right?

25 A That's correct.

FERGUSON - DIRECT - MR. TUCKER

1 Q And distribution date and time of December 18th, 2013 at
2 16:04 p.m. east coast time; is that right?

3 A Yes, that's correct.

4 Q And that corresponds to what we see on the face of the
5 final press release, 4627?

6 A Correct.

7 Q December 18, 2013, 16:04 east coast time; is that right?

8 A Yes.

9 Q Mr. Ferguson, please remind us when you came to work for
10 Marketwired initially?

11 A January 2014.

12 Q What led to your hiring there, if you know?

13 A The company had experienced some pretty significant
14 systems problems, breaches, and as part of the strengthening
15 the program they hired me as the Chief Information Security
16 Officer.

17 Q Did Marketwired make efforts to improve its cyber
18 security posture?

19 A Significant.

20 Q Even with those efforts did Marketwired continue to be
21 the target of malicious cyber activity after you joined the
22 company?

23 A Yes.

24 MR. TUCKER: No further questions, Your Honor.

25 THE COURT: All righty.

FERGUSON - CROSS - MS. BRILL

1 Ms. Brill?

2 MS. BRILL: Yes, Your Honor.

3 CROSS-EXAMINATION

4 BY MS. BRILL:

5 Q When were you acquired by NASDAQ?

6 A Marketwired?

7 Q When was Marketwired acquired by NASDAQ I should ask?

8 A February 2016.

9 Q And was a disclosure made to NASDAQ that the systems had
10 been severely compromised, do you know?

11 A Yes.

12 Q Yes, you know and, yes, the disclosure was made?

13 A Yes.

14 Q So, referring again only to the uploaded press releases,
15 not to the distributed press releases.

16 A Okay.

17 Q Is it your testimony that you maintain all of the
18 uploaded press releases as uploaded?

19 A That's correct.

20 Q And do you maintain separate copies of all of the
21 uploaded as edited?

22 A Yes, that's what becomes the final.

23 Q So, there are several different versions maintained in
24 your system, the uploaded version, any edits that might be
25 made and the final distributed version?

FERGUSON - CROSS - MS. BRILL

1 A Yes.

2 Q You have all of those in your system?

3 A Yes.

4 Q So, let me just talk a little bit about the editing that
5 does take place. I mean you spoke about the fact that it is
6 handed over to your editors or your editorial team, right,
7 once it is uploaded and editing can be as simple as
8 formatting, right?

9 A Correct.

10 Q It could be as simple as removing the markings that I was
11 talking about earlier, right?

12 A Yes.

13 Q And it could also be a little more complex like changing
14 words, right?

15 A Yes, that's true.

16 Q Changing numbers?

17 A Yes, that's correct.

18 Q Changing paragraphs?

19 A Yes, under the client's direction.

20 Q And under the client's direction you could also add and
21 subtract pages, right?

22 A Yes.

23 Q There's a system in place, there's a protocol in place
24 for the press releases to be altered even after they're
25 uploaded on your portal, right?

FERGUSON - CROSS - MS. BRILL

1 A That's correct.

2 Q I'm going to talk a little bit also about -- and when
3 those documents are edited, nothing changes about the uploaded
4 time?

5 A Not the submission time, that's maintained from the
6 original submission.

7 Q Even after you send it over to the client for an okay and
8 bring it back?

9 A Submission time --

10 Q Yes, for distribution?

11 A That's correct, it stays the same.

12 Q So, you spoke a little bit about confidentiality and
13 you're aware, are you not, that there's a -- do you have a
14 relationship with your clients that requires that the
15 documents be kept confidential, your company has that
16 relationship, right?

17 A That's correct.

18 Q And it is important for the company to keep those
19 documents confidential?

20 A Yes.

21 Q It is important for Marketwired and it is important for
22 the corporation, right?

23 A Correct.

24 Q And that's the service that you offer, that's what the
25 clients contract?

FERGUSON - CROSS - MS. FELDER

1 A Yes.

2 Q And part of keeping the documents confidential you would
3 agree is keeping the system secure, right?

4 A Correct.

5 Q So, if the security is breached, then Marketwired, the
6 company is not fulfilling its obligation to keep the documents
7 confidential, would that be fair to say?

8 A Correct.

9 MS. BRILL: I don't have any further questions.

10 THE COURT: Thank you.

11 Anything else?

12 CROSS-EXAMINATION

13 BY MS. FELDER:

14 Q Good afternoon, Mr. Ferguson.

15 A Hello.

16 Q I'd like to show you what was previously admitted as
17 Government Exhibit 323-A1.

18 A Yes.

19 Q You testified that the government provided you with this
20 document, correct?

21 A Yes.

22 Q When were you provided with this?

23 A Within the last week.

24 Q Did you ever see this document or text prior to the
25 government showing it to you?

FERGUSON - CROSS - MS. FELDER

1 A No.

2 Q Did you review the CS3 portal to compare this document to
3 whatever is in the portal?

4 A I compared it to the final release, I didn't compare it
5 to what was in the portal.

6 Q You testified that your clients would upload information
7 to that portal, correct?

8 A Yes.

9 Q And they would upload the body content of the press
10 release, correct?

11 A Yes.

12 Q One other question, do you know the source of this text?

13 THE COURT: I'm sorry, I didn't hear the end of
14 that.

15 Q Do you know the source of this text?

16 A The source of the text?

17 Q Yes.

18 A I only know that it looks like the other document, I
19 don't know where it came from.

20 Q You have no personal knowledge of where it came from,
21 correct?

22 A No.

23 Q Or what computer it was on, correct?

24 A No.

25 Q And it's not anything similar to what you've seen in the

FERGUSON - CROSS - MS. FELDER

1 portal, correct?

2 A I didn't look in the portal for this document.

3 MS. FELDER: No further questions.

4 THE COURT: Thank you.

5 Anything else?

6 MR. TUCKER: No, Your Honor.

7 THE COURT: Thank you, Mr. Ferguson. Appreciate it.

8 Step down.

9 Next witness.

10 (Continued on next page.)

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

JAMES GIMBI - DIRECT - MR. TUCKER

1 MR. TUCKER: The Government calls James Gimbi.

2 (Witness takes the witness stand.)

3 JAMES GIMBI, called as a witness, having been first duly
4 sworn/affirmed, was examined and testified as follows:

5 THE WITNESS: I do.

6 COURTROOM DEPUTY: Please have a seat state and
7 spell your name for the record.

8 THE WITNESS: My name is James Gimbi, J-A-M-E-S,
9 G-I-M-B-I.

10 MR. TUCKER: May I inquire, your Honor?

11 THE COURT: Yes, sir.

12 DIRECT EXAMINATION

13 BY MR. TUCKER: :

14 Q Good afternoon, Mr. Gimbi. Where are you employed, sir?

15 A I work for the United States Senate.

16 Q What do you do for the Senate?

17 A I am a cyber security legislation policy adviser.

18 Q What does that mean to be a cyber security legislation
19 policy adviser?

20 A Sure. So my role is to help a Senator deal with cyber
21 security issues as they come up and draft legislation
22 direction for potential future changes.

23 Q How long have you been working in the Senate?

24 A Since January.

25 Q How long is your fellowship?

JAMES GIMBI - DIRECT - MR. TUCKER

1 A The fellowship lasts until December 31, 2018.

2 Q Where were you employed prior to the Senate?

3 A Mandiant.

4 Q What is Mandiant?

5 A Mandiant is a cyber security consulting firm. And the
6 company does a range of cyber security professional services,
7 consulting, specializing most specifically in incident
8 response and forensic analysis.

9 Q When you say incident response, what do you mean by that?

10 A Incident response is the practice of helping an
11 organization when a company or Government agency is dealing
12 with a breach, a hacker, once they have found a way into the
13 environment. So that might include first identifying the full
14 scope of an incident, as well as developing a plan to extract
15 the attacker from the environment and prevent them from coming
16 back again.

17 Q What is your educational background?

18 A I went to the Rochester Institute of Technology. And had
19 a, received a Bachelor's degree with honors in information
20 security and forensics.

21 Q Have you received specialized training in information
22 security and forensics?

23 A I have.

24 Q Please tell the jury a little about that.

25 A There was the Bachelor's degree, which again focused

JAMES GIMBI - DIRECT - MR. TUCKER

1 heavily on analysis, techniques and procedures. As well as
2 evidence handling and processes that would help surrounding
3 the delivery of an incident response engagement.

4 Since working at Manhattan I have taken several
5 classes, as well as taught several classes, for federal law
6 enforcement and others.

7 Q Focusing on the teaching for a moment, please tell the
8 jury and the Court a little about the type of classes you
9 taught?

10 A Sure. So the classes I taught were analysis techniques,
11 forensic methods and offensive techniques for corporate
12 clients, new consultants at the company, conferences and
13 federal law enforcement.

14 Q During your time at Mandiant, about how many different
15 clients have you provided cyber forensic and information
16 security consulting services?

17 A Somewhere in the order of 95.

18 Q What was that time period?

19 A From 2012 June 2012 until just this last January.

20 Q Are you being paid in connection with your testimony here
21 today, Mr. Gimbi?

22 A I'm being reimbursed for travel; aside from that, no.

23 MR. TUCKER: At this time the Government offers
24 Mr. Gimbi as an expert in information security, computer
25 forensics and cyber incident responses.

JAMES GIMBI - DIRECT - MR. TUCKER

1 THE COURT: Either counsel wish to exam at this
2 point?

3 MS. BRILL: Your Honor, if I could just say, is this
4 witness going to be giving an opinion?

5 THE COURT: He's being offered as an expert witness,
6 I assume he is.

7 MR. TUCKER: Yes.

8 MS. BRILL: There is no voir dire, your Honor. That
9 was my only question.

10 THE COURT: Very well.

11 MS. FELDER: No objection, your Honor.

12 THE COURT: Ladies and gentlemen let me interject
13 for just a second. You heard a term I myself don't generally
14 use, that of opinion witness -- of an expert witness, excuse
15 me. This has nothing to do with this gentleman. I would say
16 this no matter who was called and proffered to the jury as a
17 so-called expert witness.

18 You are the judges of facts, all facts. Even facts
19 about which an opinion or expert witness will testify to. If
20 you believe that the evidence does not support an opinion
21 expressed, you're free to reject it. If you think the
22 background or experience of an expert witness is not
23 sufficient to support an opinion or opinions expressed by that
24 witness, you're free to reject it. If you think there is
25 other evidence in the case that convenes what an opinion or

JAMES GIMBI - DIRECT - MR. TUCKER

1 expert witness has to say, you're free to reject.

2 Which is why I choose the label opinion witness
3 rather than expert witness so that the jury is not in any way
4 confused that on all facts in dispute, all facts, you the jury
5 are the judges of those facts. Okay. So bear that in mind.

6 As I said, I say this to you regardless of who the
7 witness is. I refer to him as an opinion witness, lawyers
8 will often hear, as you've already heard, refer to them as
9 expert witnesses. But you're the expert. You're the ultimate
10 finder of all facts. Okay. Please continue.

11 MR. TUCKER: Thank you, your Honor.

12 BY MR. TUCKER:

13 Q Mr. Ferguson, I want to return your attention to
14 June 2013. Did there come a time when you were part of a
15 Mandiant incident response team that worked in engagement at
16 Marketwired?

17 A Correct. My last is Gimbi, yes.

18 Q I'm sorry, Mr. Gimbi. I apologize. Mr. Gimbi.

19 THE COURT: You have to correct that incident,
20 didn't you?

21 Q My apologies, Mr. Gimbi.

22 What was your understanding of the events that led
23 up to that engagement at Marketwired?

24 A My understanding is that the Secret Service had notified
25 Marketwired that there had been a breach. They had advised

JAMES GIMBI - DIRECT - MR. TUCKER

1 that they seek expert assistance to deal with the breach.

2 Q Did you have to travel anywhere as part of your work in
3 that engagement?

4 A I did. I went to Toronto twice.

5 Q All together, how long did you work on that project?

6 A It was about two weeks on site, and another I would say
7 four to six weeks offsite.

8 Q Did you have anybody else with you from Mandiant when you
9 responded to Marketwired?

10 A Yes.

11 Q Who was -- approximately how many other people were with
12 you?

13 A Two other consultants on the case.

14 Q When you arrived at Marketwired, what were your
15 objectives?

16 A The objectives were first to understand the full scope of
17 the incident. And the second objective was to remove the
18 attacker from the environment. The third was to prevent
19 attacks from happening again.

20 THE COURT: Would you move a little closer to the
21 microphone.

22 THE WITNESS: Is this better?

23 THE COURT: We'll see.

24 Q Mr. Gimbi, could you just restate your answer, what your
25 objectives were, I couldn't hear?

JAMES GIMBI - DIRECT - MR. TUCKER

1 A The objectives were to identify the full scope of the
2 breach; remove the attacker from the environment; and third,
3 prevent the similar attack from happening again.

4 Q So focusing on the first role, identifying the full scope
5 of the incident, what does that mean?

6 A Full scope means we're looking to understand everything
7 that the attacker had done in terms of every system that they
8 had interacted with and ideally all the data that they would
9 have had accessed to and were removed from the environment.

10 Q And removed from the environment, what does that mean?

11 A To copy data from a victim network work onto some other
12 network, often for some other use distribution or re-sale.

13 Q When you say remove the attacker from the environment?

14 A Excuse me -- yes.

15 Q What do you mean?

16 A That would mean to take away whatever means of access
17 that they have. If they are getting in through the back door,
18 we close the back door and lock it.

19 Q When you conduct an incident response in a case like
20 this, what is the pace or level of urgency?

21 A The pace depends very much on a few different factors.
22 Most importantly the type of attack they are, what you're
23 dealing with and the risk tolerance of the client. You would
24 treat, for instance, when you talk about type of attacker a
25 nation state espionage organization is very different than how

JAMES GIMBI - DIRECT - MR. TUCKER

1 you treat an organization that was actively stealing money at
2 a very high rate from the organization.

3 Q How would those differ?

4 A When you're dealing with an intelligence agency or an
5 agent of a nation state, you generally don't want them to know
6 that you know that they are there until you fully understand
7 everywhere they are so you can remove them from the
8 environment faster than they would be able to respond and dig
9 deeper in.

10 When you're dealing with a financially motivated
11 attacker, the incentives change. You want to do everything
12 you can to stop the loss of capital as soon as you can.

13 Q What was the tempo like for the Marketwired engagement?

14 A A little bit in between.

15 Q Tell the jury the general methodology that you and your
16 team employed at Marketwired?

17 A You take whatever facts you have available to you. In
18 this case I believe we had a few different IP addresses that
19 were reported as malicious. As well as a sea full of what we
20 were told was evidence collected by the Secret Service. And
21 we look to see if anything would have lined up with those
22 pieces of evidence could be found in artifacts in
23 Marketwired's actual environment.

24 From there you follow the leads. So you work with
25 this one fact that you have, timeline around that, look at

JAMES GIMBI - DIRECT - MR. TUCKER

1 what happened on the system at that point, learn more about
2 the scope, if they had moved laterally, moved to another
3 machine. You would complete -- or excuse me, continue that
4 process until you stop finding new things essentially.

5 Q What kind of evidence did you obtain and review in your
6 work at Marketwired?

7 A The two primary sources of evidence were log files from
8 various services and file system information from forensic
9 images.

10 Q What are log files?

11 A Log files are computer files, often flat text files, that
12 are dynamically generated; that is to say, actively added as a
13 computer does what a computer would normally do, different
14 types of logs for different sources of events.

15 You may have a log every time somebody logs into a
16 computer. For instance, every time you sign into your
17 computer your computer keeps track of what you did, what the
18 username was, whether or not it was successful, and stores
19 that for later inspection.

20 Q So those are records of the activity that the system is
21 undergoing?

22 A Correct.

23 Q You mentioned that you also examined forensic images,
24 please explain what you mean by that?

25 A Forensic image is a bit for bit copy of a hard drive of a

JAMES GIMBI - DIRECT - MR. TUCKER

1 computer.

2 Q What kind of thing to us look for when you look at
3 forensic imagings?

4 A When you're looking at a forensic image, you're generally
5 trying to understand what an attacker actually performed while
6 they were effecting or on you might say a system. So you can
7 find evidence of them creating, removing files, collecting
8 files. You could find evidence of what, potentially evidence,
9 of what directories they had seen, commands that they had run,
10 and other such things.

11 Q When you do a review of a forensic image are you looking
12 for malware?

13 A Yes.

14 Q What is malware?

15 A Malware is software that is designed for some malicious
16 purpose, hence malware. Malware with a back door that lets
17 you have access to a machine that you're not supposed to have
18 access to. It can be a key logger, which tracks everything
19 that person types, or it can be something like ransomware.

20 Q In your review of the web logs from Marketwired's
21 systems, did you see evidence of malicious activity?

22 A Yes.

23 Q Did you also see evidence of malware on Marketwired
24 systems?

25 A Yes.

JAMES GIMBI - DIRECT - MR. TUCKER

1 Q By the way, you've been talking about reviewing forensic
2 images; is that right?

3 A Yes.

4 Q Did you look at the actual machines that were operating
5 Marketwired systems while they were online?

6 A No.

7 Q Why the images?

8 A An image is for the purpose of being forensically sound.
9 If can you get an image of a computer -- if a computer is on
10 and active in production mode, the contents of the hard drive
11 are constantly changing. Most digital artifact, just like
12 real artifacts, have a life span of sorts. Like a foot print
13 in mud is somewhat ephemeral, weather can make it go away. So
14 what we're basically doing is taking a cast of the system so
15 we know actually what was on at the time of analysis, or time
16 of collection rather.

17 Q Based on your overview of the forensic images and logs,
18 were you able to determine when the malicious activity
19 targeting Marketwired systems began?

20 A Yes.

21 Q When?

22 A February of 2010.

23 Q Did that malicious activity occur on and off after that
24 during at arrival of the Mandiant team?

25 A Yes.

JAMES GIMBI - DIRECT - MR. TUCKER

1 Q You arrived in June of 2013?

2 A Correct.

3 Q You testified that the earliest evidence of malicious
4 activity was in February 2010. In your experience, Mr. Gimbi,
5 do malicious cyber attackers sometimes take measures to remove
6 or conceal evidence of their activities?

7 A Yes.

8 Q What kinds of measures?

9 A Well, you would most commonly see an attacker delete or
10 modify log files. Probably the lowest hanging fruit, we call
11 an anti-forensic.

12 Q You said lowest hanging fruit?

13 A Lowest hanging fruit, I guess easiest thing to do with
14 the highest impact.

15 Q That was anti-forensic activity?

16 A Yes.

17 Q What is the point of modifying or deleting log files?

18 A The two big points would be first to slow down an
19 investigation generally. And the second would be to obfuscate
20 attribution attempts, make it harder to work.

21 Q When you say attribution attempts, figuring out who the
22 attacker is?

23 A Yes.

24 Q Were you able to determine how the attackers gained
25 access to Marketwired systems initially?

JAMES GIMBI - DIRECT - MR. TUCKER

1 A Yes.

2 Q What did they do?

3 A They used a technique known as SQL injection or SQL
4 injection on a front Internet based Marketwired application.

5 Q Briefly, remind us what SQL injection is?

6 A Taking a quick step back, SQL is a database, common
7 database. A database is like a big filing cabinet, lots of
8 drawers in it, and in the drawers are folders containing data.
9 Similarly, a database is a series of tables that contain rows
10 and columns full of information.

11 So a SQL injection attack is when you find a way to
12 ask for information from one of those digital filing cabinets
13 that you should not get your hands on, that you should not
14 have access to.

15 Q Do SQL injection query sometimes allow attackers to
16 extract information?

17 A Yes.

18 Q Do they also allow attackers to gain a sense of the
19 architecture of the target system?

20 A Yes.

21 Q Now, SQL injection queries, can they be run with
22 preexisting programs like SQLmap?

23 A Sure. There is a large amount of preprograms.

24 Q Is it also possible to have a SQL injection query using
25 nothing more than a Internet browser window?

JAMES GIMBI - DIRECT - MR. TUCKER

1 A Yes.

2 Q What part of the Marketwired system did they initially
3 target with SQL injection queries?

4 A There was an application that we refer to as CS3
5 application that was used to among other things to submit
6 press releases by, used to submit press releases for clients.

7 MR. TUCKER: Ms. Mulqueen, just for the witness.

8 COURTROOM DEPUTY: Just the witness.

9 Q Showing you what is marked for identification as
10 Government's Exhibit 710. Can you see that on your screen,
11 Mr. Gimbi?

12 A I can.

13 Q What is this document generally?

14 A This is an illustration of how the CS3 application and
15 another application UK or U.S. distribute was architected. So
16 every picture of a computer tower here represents a different
17 machine or virtual machine. It illustrates the relationship
18 how they work together in order to build this application, the
19 CS3 application.

20 Q Does this document fairly and accurately represent a
21 portion of Marketwired, correct?

22 A Yes.

23 Q Would that assist your testimony?

24 A Yes.

25 MR. TUCKER: We admit 710 for demonstrative

JAMES GIMBI - DIRECT - MR. TUCKER

1 purposes.

2 THE COURT: For demonstrative purposes. Objections?

3 MR. HEALY: No objection.

4 MS. FELDER: No objection.

5 THE COURT: In evidence.

6 (Government Exhibit 710, was received in evidence.)

7 MR. TUCKER: May we publish?

8 Q Mr. Gimbi, can you indicate now on Government's Exhibit
9 710 the portions of Marketwired systems architecture that
10 supports that CS3 application?

11 A On the left-hand side -- we see two boxes, one very large
12 box and one small. On the left-hand side working from the top
13 down we have a --

14 Q Sorry, if you tap on your screen it will light up.

15 A Excellent. So here we have what is known as an F5 load
16 balancer, I'll come back to that in a second. Let's start
17 with the database.

18 This cylinder down here represents that filing
19 cabinet, the digital filing cabinet. That is a file that is
20 stored redundantly on these two systems here, MW128 and MW127.
21 Those would be referred to as the database servers, the actual
22 physical computers that are the interacting with that database
23 file.

24 Q Are those sometimes called back end servers?

25 A Yes.

JAMES GIMBI - DIRECT - MR. TUCKER

1 Q What about those two servers, MW101 and MW015, how do
2 they factor into the CS3 application?

3 A They are called front end servers. These are the actual
4 web servers that are providing the user with a web experience
5 when they request the application address.

6 So for instance, pretending this is Google for a
7 second. You go to Google.com, these are the servers
8 responding to you.

9 Q What is the F5 appliance?

10 A F5 appliance is a load balancer. So when you're talking
11 about an application that has a lot of requests coming in,
12 it's desirable to have redundant series of servers. So
13 basically if something goes wrong with one server, too many
14 requests for one to handle all of the requests, the load
15 balancer will distribute those requests across multiple
16 servers.

17 Q So the CS3 application, it's constituent parts, is that
18 F5 load balancer, then the four servers MW10, MW15, MW128,
19 MW127?

20 A That's correct.

21 Q Did you review the web log files for that CS3
22 application?

23 A I did.

24 Q Did you see indications that the attacker was using the
25 SQL injection technique that you testified about?

JAMES GIMBI - DIRECT - MR. TUCKER

1 A I did.

2 MR. TUCKER: May I show the witness, Ms. Mulqueen?

3 COURTROOM DEPUTY: Certainly.

4 Q Showing you what is marked for identification

5 Government's Exhibit 711. Do you recognize this document,

6 Mr. Gimbi?

7 A I do.

8 Q Is this an excerpt from the web logs for the CS3

9 application?

10 A It is.

11 Q Is this just a tiny excerpt of a very, very large log?

12 A It is.

13 Q Is this a fair and accurate excerpt?

14 A It is.

15 MR. TUCKER: The Government moves to admit 711 in
16 evidence.

17 THE COURT: 711, any objection?

18 MS. BRILL: No objection.

19 MS. FELDER: No objection.

20 THE COURT: Received.

21 (Government Exhibit 711, was received in evidence.)

22 MR. TUCKER: May we publish?

23 THE COURT: Go ahead.

24 BY MR. TUCKER:

25 Q Mr. Gimbi, now that the jury can see, can you explain

JAMES GIMBI - DIRECT - MR. TUCKER

1 what the significance of this web log excerpt is to you?

2 A Sure. So we were referring to the fact that different
3 services keep different logs. Websites keep their own logs.

4 A website keeping its own log, we refer to as a a web log.

5 Here we see three different lines of a web log text
6 file. I know it looks like that it's just jumbled up, that's
7 because there is not enough space.

8 Each line is represented with the start of, each
9 line with an IP address in the beginning. So we see
10 77.123.63.15 in the beginning, that's the first line. The
11 next line 77, that's line two. Then 178.1776.936.114 is the
12 third line.

13 Q So three entries on this excerpt?

14 A That's correct.

15 Q Please continue.

16 A Each one of those three entries in this log represent one
17 request coming through from a visitor to the website that the
18 website server had to respond to.

19 Q What is that website is that reflected here?

20 A It is not reflected, I don't think, in this document
21 itself. But it is the CS3 application. We pulled it from the
22 CS3 front end servers.

23 Q Is the path here, the upper, the left-hand corner?

24 A Yes.

25 Q Tell us what you mean by path and what I mean by path?

JAMES GIMBI - DIRECT - MR. TUCKER

1 A A path is the partial or entire, how to phrase, path to a
2 website. If you go to, for instance sticking with Google.com,
3 you decide you want to see what the news from Google might be,
4 you can go to Google.com/news. The news part is the remainder
5 of the path. Here we see again /MW/cookieText is the final
6 part of the web address. So this would have been something
7 along the lines of secured up Marketwired.com/cookieText. The
8 remainder of this is also part of the path up until that
9 point.

10 Q What is the significance of this highlighted text, test,
11 what is happening?

12 A So again with the full path this would be at top of the
13 URL bar in the user's browser. We see up by the cookie
14 texting a valid request, that's just the request for a page,
15 non-malicious part of the CS3 application. After the question
16 mark we see manipulations from an attacker. We see HTP.print
17 which is an oracle function. An oracle is the developer of
18 the database that we were referring to earlier. So this is an
19 oracle function that allows you to essentially print any
20 designated text at the end of a specified web page.

21 Q Is that the HTP.print command?

22 A Yes.

23 Q What text did the user try to print with this particular
24 HTP.print command?

25 A The word test. So in essence what you would get is the

JAMES GIMBI - DIRECT - MR. TUCKER

1 expected contents of the page cookie_text, followed by "test"
2 at the very bottom of the page, literally the four characters
3 T-E-S-T.

4 Q The web page would look exactly the way Marketwired would
5 want it to look and the word test would appear on the bottom?

6 A Yes.

7 Q What is the point of doing that?

8 A It's a way of validating that you found a real
9 vulnerability.

10 Q That's a SQL injection of vulnerability?

11 A That's a SQL injection of vulnerability.

12 Q What is the significance of the next entry?

13 A Essentially the same. Let's work through from just
14 beyond the obviously change of the text.

15 We notice that the IP address in the first line and
16 second line are the same. We also notice that the string
17 here, the user agent string, which I'll come back to is also
18 the same.

19 Q User agent string?

20 A User agent string.

21 Q Continue.

22 A The IP address is the same, which is a strong indication
23 that the requests came from the same machine or at least the
24 same network. Again an IP address is essentially your address
25 on the Internet. So two requests coming from the same IP

JAMES GIMBI - DIRECT - MR. TUCKER

1 address is a strong indicator you may be dealing with the same
2 or a related individual or machine making the request.

3 The significance of the user agent string -- I don't
4 know if you can clear this again or for me -- the user agent
5 string, I'll go ahead and underscore each of these. So that
6 string, is the same for both the -- excuse me sloppy
7 underlying -- is the same for the first log entry and the
8 second log entry.

9 Q So it's clear, among other things user agent string first
10 two entries refers to Windows NT?

11 A Yes, NT5.1.

12 Q What is a user agent string, what does it do?

13 A User agent string tells the web page information about
14 your computer, about the languages that you like to use, and
15 about the device that you're on -- excuse me, the web browser
16 that you're using. The idea here is, if you're a web
17 developer you can customize what gets returned to the user
18 based on what is appropriate to them. If I have a user who
19 speaks Italian, I want to make sure if I see indicators that
20 they use Italian language text on the browser I will want to
21 return them in Italian that web page. Similarly if I see --
22 sorry.

23 Q Go ahead.

24 A If I see that they are coming from Firefox versus Chrome,
25 I may treat the page differently. Or if I see they are coming

JAMES GIMBI - DIRECT - MR. TUCKER

1 from a hand-held phone versus a full-sized computer, I may
2 serve them slightly different texts.

3 It's meant to be useful for developer from a
4 forensic stand point.

5 It's highly likely these three requests came from
6 the same web browser. Further cemented by the identical
7 vulnerability and by the similarity of the time stamps.

8 Q So it's clear, the first two requests came from the same
9 web browser, is that what you mean?

10 A Yes.

11 Q So it's clear, there are dates and times for these first
12 entries the one 17 February 2010 at 1138 minus 800?

13 A Yes.

14 Q The second entry it looks like it's 14:38 this is minus
15 500, so it's about 17 seconds later?

16 A That's right.

17 Q If this particular SQL injection query would have run,
18 what is the text that would appear on the bottom of the
19 screen?

20 A The text would look exactly what we see here, with the
21 exception that when text is rendered from this format there is
22 a symbol here, the %20. %20 would render it as a space
23 instead of percent 20.

24 So ultimately what this would look like is the word
25 ya, followed by a space, followed by hacker, followed by a

JAMES GIMBI - DIRECT - MR. TUCKER

1 space, followed by neebatso.

2 Q Did that same SQL injection command show up again in the
3 web log here in the, entry which occurs about 40 seconds later
4 at 11:39:19, on 17 February, 2010?

5 A Yes.

6 Q Forty-five seconds?

7 A Yes.

8 Q Mr. Gimbi, what is the significance of these three
9 entries?

10 A Well, again, we see the first two are likely coming from
11 the same user same browser. The last one is identical to the
12 second request coming from at a different IP address with a
13 different user agent string. This is a strong indicator that,
14 very highly consistent with somebody realizing they have found
15 a real vulnerability, customizing it in some way which is
16 common in pen-testing hacker culture, and sharing with a
17 second individual.

18 Q Just so it's clear, when you pen-testing?

19 A That's penetration testing. Penetration testing, the
20 practice of hacking for a legitimate purpose, usually with a
21 way of finding vulnerability so a company can fix them.

22 Q Mr. Gimbi, before any attacker could use the SQL
23 injection queries, would they have had to log in to the CS3
24 application with a valid username and password?

25 A They would either log in or be able to create an account

JAMES GIMBI - DIRECT - MR. TUCKER

1 with -- they would have to be able to create a valid account
2 with a specific code.

3 Q The bottom line is they couldn't use these
4 vulnerabilities without getting past that first login layer?

5 A That's correct.

6 Q So it's clear, Mr. Gimbi, this is the first indications
7 that you saw in the CS3 web logs of malicious activity
8 targeting Marketwired and CS3 specifically?

9 A First successful. There was some scanning that happened
10 before.

11 Q What is scanning generally?

12 A Automated procedure to make sure -- not to make sure --
13 to see if you can identify, again low hanging fruit, low
14 effort, high value vulnerability before you put in a manual
15 effort to put your own hole in the system.

16 Q Did the web logs reflect additional SQL injection queries
17 targeting the CS3 application after these?

18 A Yes.

19 Q What did you see?

20 A Two broad categories. Number one, specific queries
21 trying to extract certain pieces of information from the
22 database.

23 And then secondly, after that we saw many, many,
24 many requests for wholesale extraction of the contents of the
25 database press releases.

JAMES GIMBI - DIRECT - MR. TUCKER

1 Q Just so it's clear, when you say extraction, that's
2 taking data out of Marketwired systems?

3 A Correct.

4 Q And that extraction involved press releases?

5 A Correct.

6 Q Was also some the data that was extracted employee
7 information from Marketwired employees?

8 A It was.

9 Q Why might a malicious cyber attacker might want to steal
10 employer information?

11 A Well, the primary cause is for use for what we call
12 escalation of privileges.

13 Q What is that?

14 A Essentially with most breaches, nearly every breach I've
15 worked on, the attacker will get access to an employer and
16 have some level of access. Usually the level of access the
17 individual who they were able to hack into, whatever user that
18 may have been. Different users of course have different
19 levels of access. So some users may be able to access a
20 certain set of data, some users are able to change a certain
21 set of data, others not.

22 An attacker, depending on what their goals are,
23 depending on what they are looking to accomplish, may require
24 more access than they originally have. Stealing credentials,
25 usernames and passwords, is the easiest way to do that.

JAMES GIMBI - DIRECT - MR. TUCKER

1 Q In the course of your work in this engagement at
2 Marketwired, were you provided with files that federal agents
3 had recovered from computers overseas?

4 A I was.

5 Q What did you do with those files generally?

6 A I catalogued the information that was on those files and
7 made a record of what they represented.

8 Q I'm going to show what you what is in evidence as
9 Government's Exhibit 411, which is ftpusers.txt. And 444,
10 which is employees.txt. Have you seen these documents prior
11 to your testimony here today?

12 A I have.

13 Q Were those among the documents provided to you in the
14 Mandiant time by federal authorities?

15 A They were.

16 Q What did you conclude about these documents, specifically
17 Government's Exhibit 444?

18 A We concluded that it was highly, highly likely that they
19 were the output of specific SQL queries that we had seen in
20 our network. Evidence that we were able to identify
21 Marketwired logs, mapped nearly identically to what we saw on
22 the Secret Service disk.

23 Q So you were able to replicate some of those same SQL
24 queries?

25 A Yes.

JAMES GIMBI - DIRECT - MR. TUCKER

1 Q You got same the output?

2 A Same output. And there were other factors. The blast
3 modified time stamps of the files matched perfectly when the
4 requests had gone through; which is to say, they were created
5 and manipulated at the same time that the queries were seen on
6 the Marketwired side.

7 Q Showing the witness Government's Exhibit 711. There is a
8 reference to iwire. What is that?

9 A In this case iwire can be the name of the account running
10 the web service application.

11 Q What does that mean?

12 A So a web service is the software that actually sends a
13 page back to you when you make a request. You go to
14 Google.com, somebody sends you that logo in that back, that
15 somebody is a programmer on a Google server somewhere. The
16 program that's running, we call that a web server, is very
17 similar to programs we're familiar with, Word or Solitaire or
18 your web browser, in that there needs to be an actual user who
19 is logged on to the computer, an account logged on to the
20 computer to run those applications. So in this case, iwire is
21 simply the name of the account that is running the web server
22 application.

23 Q Did you see evidence that the attackers were elevating
24 the privileges of this iwire account after these initial login
25 entries February 2010?

JAMES GIMBI - DIRECT - MR. TUCKER

1 A I did.

2 Q What is the significance of that, that elevating the
3 privileges?

4 A The elevation of privileges in this case would have
5 allowed somebody who was able to control queries from the
6 iwire account, in this case the attacker, would be able to
7 essentially take control of the database system. They were
8 able to run commands as if directly from the keyboard.

9 Q Showing you what is in evidence, 710. Did that elevating
10 of privileges of the iwire account allow for lateral movement
11 within Marketwired systems?

12 A Yes.

13 Q What does that mean?

14 A It means that because of successful privilege escalation
15 they were able to make modifications or changes, moved to the
16 back end applications from the front end application, or back
17 end servers to the front end servers.

18 Q They were able to increase their access to Marketwired?

19 A Yes.

20 Q And facilitate data extraction?

21 A Yes.

22 Q Did you see indications in the web logs that the
23 attackers were successfully extracting press releases, draft
24 press releases, from the CS3 application?

25 A Yes.

JAMES GIMBI - DIRECT - MR. TUCKER

1 Q Tell the jury what you saw.

2 A We saw the development of five, I believe it was five,
3 different methods for extracting press releases using this
4 application over the course of several years. So they used
5 different techniques, but at a rate that showed that they were
6 automating on the back end, meaning write a program to do it
7 for them.

8 So they found a technique, they would have manually
9 figured out exactly how to get what they want and apply that
10 into a network and do that over and over again.

11 Q Did you see that activity from February 10 through your
12 arrival at Marketwired in the summer 2013?

13 A Yes.

14 Q Based on your review of web logs and the associated data,
15 approximately how many draft press releases were the attackers
16 able to extract from Marketwired systems during that period?

17 A Somewhere around the order 120,000.

18 Q 120,000 unique press releases?

19 A Right.

20 Q Did you see evidence that the attackers were targeting
21 another part of Marketwired systems, that is the UK distribute
22 server, shown here on Government's Exhibit 710?

23 A Yes.

24 Q What did you see?

25 A We saw attacker log into that application. And using the

JAMES GIMBI - DIRECT - MR. TUCKER

1 access that they had from that -- from that application,
2 manipulate the secure one server, right here, so that they
3 could access data that was stored on the server over here.

4 Q A few questions about that. First, the UK distribute
5 server, what web domain or flat fronting domain?

6 A USdistribute.com.

7 Q This was a server that made USdistribute.com work for
8 Marketwired?

9 A Yes.

10 Q Secure one is a back end server?

11 A Yes.

12 Q You mentioned a NAS a minute ago, what is a NAS?

13 A NAS is network attached storage server, another term for
14 file server. A NAS server basically allows users to place and
15 modify files on a network while gaining access to somebody
16 else's computer.

17 Q Through this of targeting the UK distribute server, the
18 attackers were able to extract data from the NAS among other
19 locations?

20 A Yes. And the NAS, again, was on the internal network.

21 Q Not even connected to the Internet directly?

22 A No.

23 Q You said that the attackers had to log into the
24 USdistribute.com site, can you explain how they did that?

25 A There would have been a login prompt. They use the

JAMES GIMBI - DIRECT - MR. TUCKER

1 credentials, username and password, demo and demo.

2 Q The username is demo and the password was demo?

3 A Yes.

4 Q That facilitated this initial entry?

5 A Yes.

6 Q Did your review of this portion of Marketwired system and
7 the associated web logs, reflect the attackers able to install
8 web shells?

9 A Yes.

10 Q What is a web shell?

11 A A web shell is a form of malware, which can have many
12 purposes, but ultimately is just a particular way of getting a
13 computer to do something, a script. Most often it allows
14 attackers to run commands against the web server that they
15 have infected.

16 Q If you're able to extract data using SQL injection
17 queries, why might you use a web shell?

18 A Well, again, there were multiple different attempts -- or
19 excuse me, different methods that were used, several methods
20 to extract press releases had been cycled through and this was
21 another one of their methods. It's also possible there were
22 of different press releases on this web server than on the
23 back end database.

24 Q Did you see other evidence that the attackers were using
25 Marketwired login credentials to extract data from Marketwired

JAMES GIMBI - DIRECT - MR. TUCKER

1 systems?

2 A Yes.

3 MR. TUCKER: If I could just show just the witness
4 what is marked for identification as Government 712.

5 COURTROOM DEPUTY: Just the witness.

6 Q Do you recognize this document generally, Mr. Gimbi?

7 A I do.

8 Q What is it?

9 A Another web log from Marketwired application.

10 Q This is another excerpt from are the CS3 web logs?

11 A Yes.

12 Q This is from March 27, 2010?

13 A Yes.

14 Q Is this a fair and accurate excerpt from those web logs?

15 A It is.

16 MR. TUCKER: Move 712 into evidence.

17 THE COURT: 712, any objection?

18 MR. HEALY: No objection.

19 THE COURT: 712 received.

20 (Government Exhibit 712, was received in evidence.)

21 MR. TUCKER: May we publish, your Honor?

22 THE COURT: Go ahead.

23 BY MR. TUCKER:

24 Q Turning your attention to a few rows on this web log
25 excerpt, Mr. Gimbi. Can you explain for the jury the

JAMES GIMBI - DIRECT - MR. TUCKER

1 significance of these highlighted entries here DKHOO and
2 password at password. Also this reference to
3 rgibson@iwire.com and the password daustin8?

4 A These are different attempts to, requests, submitting
5 username and password for authentication, login attempts. We
6 can see that the requests map two different login pages,
7 including the Mwire_login2 and just login2 by itself. There
8 is also a NASDAQ login here. I think that was it for this
9 case, or for this instance.

10 These would have been or did map, at least the
11 rgibson and the daustin8 are credentials that were Marketwired
12 employee credentials.

13 Q Did you confirm that with representatives from
14 Marketwired during the course of the engagement?

15 A We did.

16 Q How did you determine that these were not simply
17 Marketwired employees logging into their systems in an
18 authorized way?

19 A There are a couple of factors. First, these IP addresses
20 we see here mapped again to IP addresses we saw the attacker
21 using earlier. Secondly, Marketwired actually went and spoke
22 with personnel to validate whether or not they were logging
23 into this application at these times. The personnel said that
24 they had not.

25 Q On that first point. It's the same IP address that we

JAMES GIMBI - DIRECT - MR. TUCKER

1 looked at earlier Government's Exhibit 711?

2 A It is.

3 (Continued on next page.)

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

GIMBI - DIRECT - MR. TUCKER

1 Q In the course of your review of these Web logs and the
2 other forensic analyses that you conducted, did you see
3 evidence that the attackers were manipulating the Web logs?

4 A Not the Web logs, but other logs.

5 Q What kinds of logs did you see them manipulating?

6 A There was a log that the application itself -- the
7 Marketwired developers had built into their application; and
8 the log was not nearly as comprehensive, it didn't show area
9 distance, but what it did show was the last time that a user
10 would have logged into an application.

11 Q Did you see manipulation of those logs, those application
12 logs?

13 A We did.

14 Q What did you see?

15 A I saw the attacker specifically query for specific IP
16 addresses, so the attacker knew that they were coming from
17 specific IP addresses and made an effort to remove any entries
18 containing those IP address from the logs.

19 Q What would be the point of that?

20 A The point would be to, again, evade detection that a
21 breach had happened in the first place. And then, secondly,
22 if the breach were detected, it would cover their tracks; it
23 would make it more difficult to investigate.

24 Q Did your forensic review uncover any evidence linking the
25 malicious activity to the IP address 94.100.28.42?

GIMBI - DIRECT - MR. TUCKER

1 A Yes.

2 Q What did you find specifically?

3 A That IP address was used for extracting press releases
4 from the Marketwired application.

5 Q Was one of your objectives in responding to Marketwired
6 to identify who the hackers were?

7 A No.

8 Q In the course of your work, did you reach any conclusions
9 or uncover any evidence that might relate to the identities or
10 locations of the attacker?

11 A The conclusions that we could come to were based off of
12 two sources -- again, this was not a primary objective -- but
13 first analyzing the IP addresses where all of the theft had
14 come from, we realized that most of them had been cycled
15 through for proxies, things like tour and other redirect
16 methods, basically obfuscating where the requests had come
17 from making it harder to tell exactly what server the requests
18 had been issued from.

19 We did notice that an unusually high number of those
20 IP addresses were based out of the Ukraine, but aside from
21 that, we didn't notice any trends.

22 Beyond that, the other conclusion we could come to
23 again is that whatever server or computer the Secret Service
24 had recovered their artifacts from would have been involved in
25 the malicious activity that we saw in Marketwired.

GIMBI - DIRECT - MR. TUCKER

1 MR. TUCKER: Your Honor, can I have a moment to
2 confer with my colleagues?

3 THE COURT: Yes.

4 (Short pause.)

5 Q Mr. Gimbi, were there subsequent teams that from Mandiant
6 that responded to Marketwired after your work on that project
7 completed?

8 A Yes.

9 Q Preparing for your testimony today, did you review the
10 reports prepared by the subsequent teams?

11 A I did.

12 Q Just generally, based on your review of those reports,
13 did you see some of the same hacking techniques being employed
14 after you left Marketwired in the summer of 2013?

15 A Yes.

16 Q Those included SQL injection queries and the use of Web
17 shells?

18 A Yes.

19 Q And did they also include the use of stolen login
20 credentials from Marketwired employees?

21 A Yes.

22 Q Mr. Gimbi, even while you were at Marketwired during the
23 summer of 2013, was Marketwired still an ongoing target of
24 malicious cyber activity?

25 A They were.

GIMBI - DIRECT - MR. TUCKER

1 MR. TUCKER: Your Honor, I have no further
2 questions.

3 THE COURT: Well, I think we can all use a break
4 right about now, so we will take our afternoon break. We will
5 resume in about 12 minutes.

6 THE COURTROOM DEPUTY: All rise.

7 (Jury exits.)

8 THE COURTROOM DEPUTY: You can step down, sir.

9 (Witness steps down.)

10 THE COURT: All right.

11 (Witness resumes the stand.)

12 THE COURT: I want to talk some more at the end of
13 the day about subject matter of our early morning discussion.

14 (Jury enters.)

15 THE COURT: Okay. Please be seated, everyone.

16 Before we begin the cross-examination, I want to add
17 a little footnote to the schedule that we gave you last week,
18 drawing your attention to Thursday, which is an unusual day,
19 we start at one o'clock, but that's after lunch, so make sure
20 you have some lunch beforehand, okay? We'll take a somewhat
21 extended break in the middle of the afternoon to get you
22 refreshed, but we will start at 1:00 and we are not going to
23 stop for lunch, okay?

24 All right. Cross-examine, Mr. Healy?

25 CROSS-EXAMINATION

GIMBI - CROSS - MR. HEALY

1 BY MR. HEALY:

2 Q Good afternoon, Mr. Gimbi.

3 A Good afternoon.

4 Q I just want to be clear, you and Mandiant, your company
5 at the time, you didn't design the Marketwired system, did
6 you?

7 A No.

8 Q And, in fact, you didn't maintain the Marketwired system
9 prior to 2013, did you?

10 A No.

11 Q You, Mandiant -- you and Mandiant were hired in June of
12 2013 by Marketwired's attorneys, correct?

13 A Correct.

14 Q And that was because the Secret Service had notified them
15 that there was a compromise in their system, correct?

16 A Correct.

17 Q And your team came in to do your incident response,
18 correct?

19 A Yes.

20 Q And in the course of your incident response, one of the
21 things you told the jury earlier is between the time you were
22 called in in June going back to February of 2010, there had
23 been evidence of hacking, correct?

24 A Yes.

25 Q About three year's period?

GIMBI - CROSS - MR. HEALY

1 A And change, yes.

2 Q And change.

3 And Marketwired was unaware of this, correct, until
4 the Secret Service informed them.

5 A To the best of my knowledge, yes.

6 Q Now, when you came in, you explained that you had a
7 three-part objective, and one of the objectives was to prevent
8 future intrusions, correct?

9 A Yes.

10 Q And the way you did that, for example, in this case, was
11 you made very specific recommendations; for example,
12 implementing keyword blocks.

13 A Yes.

14 Q And removing malicious Web shells from the server?

15 A Yes.

16 Q And disabling the accounts that you told us the hackers
17 were using to upload those Web shells, correct?

18 A Yes.

19 Q And putting in HTTP Web log monitoring to see what was
20 going to be happening, correct?

21 A Yes.

22 Q And implementing file integrity monitoring on some of
23 those servers that were in the architecture trunk, correct?

24 A Yes.

25 Q And when your team finished, which I believe was on or

GIMBI - CROSS - MR. HEALY

1 around June 19th of the 2013, you testified that even then
2 there was still some evidence that Marketwired was under
3 attack, correct?

4 A Yes, with the caveat of the exact finishing date, I'm not
5 sure of, but I know that we continued to be continuously
6 engaged through and into July.

7 Q Correct. And I was going to ask you, do you recall that
8 Mandiant was hired again in July to come back to Marketwired?

9 A I'm aware that that happened, yes.

10 Q And at that time, they did a follow-up incident response.

11 A Yes.

12 Q And they found that because -- they found that because an
13 employee reported that someone had logged into his 3 -- CS3
14 account and used it while he was on vacation.

15 A I don't recall that, but that may be in the report.

16 Q You don't recall.

17 And isn't it true that the Mandiant team found that
18 data had been removed from the server between June 24th and
19 July 30th?

20 A June 24th and July 30th of 2013?

21 Q Of 2013.

22 A I believe so. I would have to check to be absolutely
23 sure.

24 Q And at the end of that process, your team, Mandiant,
25 instituted another set of containment steps that they advised

GIMBI - CROSS - MR. HEALY

1 Marketwired to take, correct?

2 A From the second breach?

3 Q Yes.

4 A I would presume so, but I -- again, I was not directly
5 part of that procedure.

6 Q And are you aware that in November of 2013 Mandiant was
7 called back again to Marketwired by their attorneys?

8 A Yes.

9 Q And at that time, again, an incident response was
10 initiated.

11 A Correct.

12 Q And they did an analysis on the servers, and what they
13 found is that again there had been an intrusion.

14 A Yes.

15 Q And they found that the intrusion, the earliest evidence
16 of any compromise, was on November 17th of 2013.

17 A Okay.

18 Q And would you agree with me, Mr. Gimbi, that that
19 indicates that Mandiant did their job very well, that there
20 was no intrusion between July 30th, 2013, and October 17th of
21 2013?

22 A I'm sorry, could you rephrase the question?

23 Q Sure.

24 When Mandiant left the second time, July 30th of
25 2013, they had put in place recommendations to secure the

GIMBI - CROSS - MR. HEALY

1 system.

2 A Right.

3 Q When they came back in November, they indeed found that
4 there had been another intrusion, but that intrusion just
5 started on October 17th of 2013, correct?

6 A From my reading of the report, I believe so, yes.

7 Q So that the server was secure from the date of July 30th,
8 2013, to October 17th of 2013.

9 A I would always hesitate to use that language. Frankly,
10 most systems are simply not going to be perfectly secure, and
11 if you're not starting from a mature standpoint already,
12 there's always going to be holes. It's just a matter of
13 whether or -- it's always -- there will always be holes. It's
14 a matter of whether or not the attacker who was interested in
15 getting into the network is aware that they are there. So I
16 would not ever say that something was secure as a matter of
17 fact.

18 Q And, in fact, my question was probably not correctly
19 phrased. My question is: There was no evidence that there
20 was any hacker intrusion between those two dates, July 30th,
21 2013, and November 17th of 2013.

22 A I would not be able to refer to that directly from my
23 experience aside from what I had seen in the reports.

24 Q Do you recall anything that you saw in the reports that
25 indicated anything to the contrary?

GIMBI - CROSS - MR. HEALY

1 A No.

2 Q And then after Mandiant left in November of 2013, are you
3 aware that they were called back again in June of 2014?

4 A That sounds correct.

5 Q And, again, they initiated the same type of incident
6 response.

7 A I know there was various types of services we provided.
8 I don't remember if that particular one was an incident
9 response or compromised assessment.

10 Q Whatever we call it, are you aware that when they did
11 their analysis, they determined that the earliest evidence of
12 compromise was in February of 2014?

13 A I don't recall that.

14 Q Are you aware that even though if there was evidence of
15 compromise, this time there was no evidence of any information
16 exposure.

17 THE COURT: Is this something you were involved in?

18 THE WITNESS: No.

19 MR. HEALY: Your Honor, he testified that he
20 reviewed all the subsequent reports prior to his testimony,
21 and some of the government's questions referred to information
22 contained in those reports.

23 THE COURT: All right. Go ahead.

24 A I'm sorry, what was the question?

25 Q I wondered if you were aware that when they did their

GIMBI - CROSS - MR. HEALY

1 either compromise report or incident response report that they
2 found that even though there had been some tempted intrusion
3 that there had been no information exposure?

4 A That does sound familiar from the 2014 report, yes.

5 Q Essentially, it was still locked down from the good job
6 that Mandiant did in November of 2013.

7 A Again, I would always be careful with --

8 Q There was no evidence --

9 A Yes. Yes.

10 Q And then they came back again in August of 2014; are you
11 aware of that?

12 A Yes. I'm aware that there was another engagement in
13 2014.

14 Q And at that time, during that investigation, they did
15 find that there was some exposure.

16 A Information exposure? Information theft?

17 Q Yes.

18 A I remember seeing something along those lines in the
19 reports, yes.

20 Q And are you aware that the exposure was limited to the
21 dates of July 18th, 2014, to July 22nd of 2014?

22 A I do not remember the specific dates.

23 MR. HEALY: No further questions, Your Honor.

24 THE COURT: All right.

25 Ms. Felder?

GIMBI - CROSS - MS. FELDER

1 CROSS-EXAMINATION

2 BY MS. FELDER:

3 Q Mr. Gimbi, you testified that in your review, malicious
4 activity was noted as early as February of 2010?

5 A Yes.

6 Q And your team arrived in June of 2013?

7 A Correct.

8 Q The scope of your work was not to determine who the
9 actual actors were, correct?

10 A Correct.

11 Q The scope of your work was just to determine what type of
12 intrusions there were --

13 A Right.

14 Q -- and how to secure the system; is that right?

15 A And where applicable, identify the stolen data.

16 Q Were there sophisticated techniques used to intrude the
17 particular S -- CS3 application?

18 A It depends on how you define "sophisticated." I would
19 say no.

20 THE COURT: Would I say yes?

21 A So one -- I'm trying to determine what kind of depth is
22 useful here.

23 Q Let me give you an example.

24 An S Q L or SQL injection, is that considered
25 sophisticated?

GIMBI - CROSS - MS. FELDER

1 A It's not considered sophisticated, but sophisticated
2 hackers do use it.

3 Q And what about malware?

4 A All -- most every hacker would use malware, yes.

5 Q But you would agree that typically average computer user
6 would not know how to create a SQLmap or a SQL injection,
7 correct?

8 A Well, most of those tools, like, when you are talking
9 about SQLmap, are things that you can just Google and download
10 and run, that's point click. There's very little level of
11 sophistication that needs to go into that, and I would
12 certainly say that most people would dabble with testing --
13 kind of cut their teeth and get started by downloading
14 prebuilt tools like those.

15 (Continued on the following page.)

16
17
18
19
20
21
22
23
24
25

GIMBI - CROSS - MS. FELDER

1 BY MS. FELDER: (Continuing.)

2 Q But you were hired to secure the system; correct?

3 A We were hired to investigate what had happened with
4 regard to a particular breach and to provide recommendations
5 surrounding those observations.

6 Q And you made those recommendations; correct?

7 A The head of our team was charged with drafting the
8 specific recommendations.

9 Q Right, but those recommendations were implemented to
10 secure the system?

11 A With mixed consistency, I believe due to technical
12 limitations on the team. For instance, I'm aware that
13 technical blocks around certain keywords were able to be
14 implemented right away as soon as we requested those, but more
15 advanced recommendations I think had taken them more time.

16 Q Right that's understandable. You testified you would be
17 hesitant to every say that any system is perfectly secure; is
18 that right?

19 A That's correct.

20 Q But there are steps that you can take to make it more
21 secure than it was?

22 A That's correct.

23 Q Especially after you've identified the techniques used to
24 intrude the system; correct?

25 A Yes.

GIMBI - CROSS - MS. FELDER

1 Q Another technique used by the actors was the use of
2 employee usernames and passwords?

3 A Correct.

4 Q And once you have those provisions you will access the
5 system; correct?

6 A Assuming that the passwords had not changed or there
7 isn't any other sort of other block prohibiting the IP address
8 from going through, yes.

9 Q There's one example of an employee complaining that his
10 credentials were used to access the CS-3 portal; correct?

11 A Can you rephrase the question?

12 Q An employee complained that his CS-3 credentials were
13 used to access the system when he was on vacation?

14 A I'm not sure about a complaint, but there was a
15 relationship where we had Marketwired personnel ask specific
16 individuals whether or not certain logins were connected to
17 their legitimate activity.

18 Q What I mean is that the company became aware that
19 employees' credentials were being used; correct?

20 A Yes.

21 Q In an unauthorized way; correct or at least it was not
22 used by that particular employee; correct?

23 A Yes.

24 Q So user names and passwords can be used without someone's
25 permission or knowledge; correct?

GIMBI - CROSS - MS. FELDER

1 A Yes.

2 Q And in this case that happened. I believe you gave the
3 example of the username Demo and a password being used?

4 A Yes.

5 Q And that password was used to infiltrate the system?

6 A That password was used to access the system. I'm not
7 sure if there's a particular definition around the word
8 "infiltration."

9 Q Access the system is sufficient. So you would agree that
10 once an actor has your e-mail, your password, they can use
11 those credentials to access your personal system or your
12 professional system; correct?

13 A They may be able to if an individual is reusing
14 passwords.

15 Q Correct. As long as the password stays the same, they
16 can use it?

17 A Right. And if they had used the same password on two
18 different services, yes.

19 Q Right. In terms of what you testified to earlier, the
20 actors in this particular case they used various techniques to
21 hide their tracks; correct?

22 A They used at least one technique to hide their tracks.

23 Q What technique was that?

24 A They deleted log entries from the -- from an application
25 log.

PADRES - DIRECT - MS. NESTOR

1 Q And you were able to determine that because you have the
2 forensic tools to do that; correct?

3 A Yes. It was in the logs.

4 Q Thank you. No further questions.

5 THE COURT: Anything else?

6 MR. TUCKER: No, Your Honor. Thank you.

7 THE COURT: Thank you, sir, you may step down.

8 (Witness excused.)

9 THE COURT: Next witness, please.

10 MS. NESTOR: The Government calls Bret Padres.

11 THE COURTROOM DEPUTY: Please take the stand and
12 raise your right hand.

13 (Witness sworn/affirmed.)

14 THE COURTROOM DEPUTY: Have a seat and state and
15 spell your name for the record.

16 THE WITNESS: Bret, B-R-E-T, Padres, P-A-D-R-E-S.

17 (Witness takes the witness stand.)

18 BRET PADRES, called as a witness, having been first duly
19 sworn/affirmed, was examined and testified as follows:

20 DIRECT EXAMINATION

21 BY MS. NESTOR:

22 Q Good afternoon.

23 A Good afternoon.

24 Q Where are you employed?

25 A The Crypsis Group.

PADRES - DIRECT - MS. NESTOR

1 Q What is the Crypsis Group?

2 A A cyber security professional services consulting firm.

3 Q What is your position at the Crypsis Group?

4 A The CEO.

5 Q Crypsis is C-R-Y-P-S-I-S; is that correct?

6 A Correct.

7 Q Can you tell us what your responsibilities are at
8 Crypsis?

9 A In addition to being the CEO, I help run investigations.
10 So we help people with data breaches when they believe that
11 somebody has gained unauthorized access to their data and we
12 can help remediate or prevent that from happening again.

13 Q Are you testifying here today in your capacity as the CEO
14 of Crypsis Group?

15 A Yes.

16 Q Were you retained by the Government?

17 A Yes.

18 Q Are you testifying her today pursuant to a retention by
19 the Government?

20 A Yes.

21 Q And are you being paid to testify here today?

22 A Yes.

23 Q How much are you being paid?

24 A I think to date our invoices have been somewhere in the
25 neighborhood of \$200,000.

PADRES - DIRECT - MS. NESTOR

1 Q When you did -- withdrawn.

2 When you joined Crypsis Group -- when was that,
3 first of all.

4 A I joined the firm in January of 2017.

5 Q What did you do prior to that?

6 A Prior to the Crypsis Group I was at a firm called Stroz
7 Friedberg.

8 Q What is Stroz Friedberg?

9 A Similar to the Crypsis Group it is also a cyber security
10 professional services firm.

11 Q Can you tell us briefly what that means, a cyber security
12 professional services firm?

13 A We are consultants that help people both proactively and
14 reactively. Reactively meaning when people believe there's
15 been a cyber security incident and they need help
16 investigation what has occurred, what is the scope of what has
17 occurred. And then proactively means before there's a cyber
18 security incident, help prevent, help secure their network so
19 there is not an incident; help protect from individuals
20 gaining access to their network.

21 Q How long were you at Stroz?

22 A Close to nine years.

23 Q And what positions did you hold generally while there?

24 A While at Stroz Friedberg I was director of digital
25 forensics, director of incident response and managing director

PADRES - DIRECT - MS. NESTOR

1 of cyber resilience.

2 Q And what were your main duties while you were at Stroz?

3 A Typically my main duties were to lead large
4 investigations, to help with policies and procedures about how
5 we help to structure and go about those investigations,
6 hiring, mentorship and sort of build the practice of mostly
7 incident response, data breach response.

8 Q Part of your duties was data breach response?

9 A Correct. Many of the breach responses that were
10 performed at Stroz Friedberg during the time I was there --
11 well, I left.

12 Q What did you do before Stroz?

13 A I was the director of incident response at a company
14 called Mandiant.

15 Q Did you have similar responsibilities there?

16 A Similar. Maybe the one difference being that at Mandiant
17 I was -- it had less to do with the proactive work and it was
18 mostly reactive work. So it was all data breach response not
19 the proactive, help people prevent this from happening.

20 Q And before Mandiant where were you?

21 A I was at firm MZM, a firm that was acquired by Athena and
22 I was the director of cyber operations.

23 Q And what did you do in that position?

24 A I was a contractor for the Government and we did
25 counterintelligence operations. It was less like Stroz

PADRES - DIRECT - MS. NESTOR

1 Friedberg or the Crypsis Group or Mandiant. It was government
2 work and counterintelligence.

3 Q What did you do before Athena?

4 A I was a special agent with the Office of the Inspector
5 General at the postal service where I did investigations in
6 computer crime.

7 Q Do you also have specialized training in forensics work?

8 A I do.

9 Q What is that?

10 A I had certification in what's known at EnCase. EnCase
11 certification is a standard software package and standard
12 certification for professionals in the digital forensics
13 field. I have a reverse engineering certification and reverse
14 engineering malware which is taking software and tearing it
15 apart and trying to understand what its application is. I
16 have --

17 Q While -- go ahead.

18 A And I have a certification, computer information systems
19 security professional certification.

20 Q While at Stroz and currently at Crypsis Group, have you
21 handled hundreds of investigations?

22 A I have, yes.

23 Q And have you testified in connection with your work at
24 Crypsis Group?

25 A I have.

PADRES - DIRECT - MS. NESTOR

1 Q Have you been qualified as an expert?

2 A Yes.

3 Q An expert in computer forensic analysis?

4 A An expert in digital forensics, correct.

5 Q And while at Stroz did you also testify as an expert?

6 A Yes.

7 MS. NESTOR: Your Honor, at this time we offer
8 Mr. Padres as a witness for information security, computer
9 forensics and cyber incident response.

10 THE COURT: Any inquiry at this time.

11 MR. BRILL: No, Your Honor.

12 THE COURT: Proceed.

13 BY MS. NESTOR:

14 Q I want to turn your attention to March of 2012. Did
15 there come a time when you were part of a Stroz team that
16 worked on an engagement at PR Newswire?

17 A Yes.

18 Q And what was briefly what was your understanding of what
19 events lead to that engagement?

20 A We were hired by PR Newswire. It's my understanding that
21 they were approached by law enforcement with information that
22 they may have had an intrusion into the network, that someone
23 may have gained unauthorized access to their networks.

24 Q What were you hired to do by PR Newswire?

25 A We were hired to supplement their team and help them

PADRES - DIRECT - MS. NESTOR

1 investigate whether in fact there was an unauthorized access
2 to their network and what the scope was and then assist with
3 them providing information to law enforcement should we find
4 information.

5 Q What did your team do when you were hired in March of
6 2012?

7 A Initially we responded on site to their data center and
8 collected information from a number of their servers and began
9 analysis to determine whether or not unauthorized access was
10 gained to those servers or the PR Newswire environment.

11 Q What were your preliminary determinations?

12 A Fairly quickly upon initial analysis we determined that
13 unauthorized access was gained to their environment.

14 Q What did you do once you determined that?

15 A One of the things we did was deployed a network
16 traffic-capture device. It's something we call a sniffer. So
17 we put this device on the network that allows us to collect
18 network traffic and that allows us then to analyze that
19 traffic to examine the contents of what kind of communication
20 is going on between the PR Newswire network and other systems
21 on the internet.

22 Q Generally what types of evidence did you collect when you
23 were hired by PR Newswire in March of 2012 other than the
24 standard information?

25 A We collected a number of images, meaning we copied the

PADRES - DIRECT - MS. NESTOR

1 system's several web serves, application servers, log server,
2 meaning a server that collects and maintains web access logs
3 and a file transfer server, a secure file transfer server. We
4 made a copy of one of those as well.

5 Q You collected server images?

6 A Yes.

7 Q The sniffer data we discussed?

8 A Yes.

9 Q And some web access logs?

10 A Correct.

11 Q Now, did there come a time when you were retained by the
12 Government in this case?

13 A Yes.

14 Q What were you asked to do?

15 A So, I was asked to take possession of a number of items
16 that were in possession of Stroz Friedberg, examine that data,
17 perform analysis and come to opinions with regard to the
18 extent and method in which there was a compromise of the PR
19 Newswire environment.

20 Q Did you see the data from Stroz?

21 A Yes.

22 Q What data?

23 A A number of the web servers, application servers, a log
24 server and the FTP server.

25 Q What's an FTP server?

PADRES - DIRECT - MS. NESTOR

1 A FTP stand for file transfer protocol. So the FTP server
2 is a server that is placed on the internet to allow people to
3 transfer files to and from that server. PR Newswire needed
4 people to transfer files to their environment and copy files
5 from their environment and to do so they used this server
6 called FTP server.

7 Q Did you prepare any reports summarizing your findings in
8 the course of this engagement?

9 A Yes.

10 Q Would those assist you in your testimony today?

11 A Yes.

12 Q And did you prepare reports during your time at Stroz as
13 well?

14 A I did.

15 Q And would those help you in your testimony today?

16 A Yes.

17 MS. NESTOR: With the Court's permission, I'd like
18 to hand the witness 3500-BP-1 and 3500-BP-2.

19 THE COURT: Okay. BP-1 and 2.

20 MS. NESTOR: Your Honor, I'm handing up a binder of
21 exhibits which I will mark for evidentiary purposes in a few
22 moments.

23 BY MS. NESTOR:

24 Q Generally did you see evidence of malicious activity on
25 the PR Newswire servers in your most recent review after you

PADRES - DIRECT - MS. NESTOR

1 were retained by the Government?

2 A Yes.

3 Q What were your findings?

4 A I found that as early as April of 2010 that there was
5 unauthorized access gained to the PR Newswire network.

6 Q And, to be clear, the servers that you testified that you
7 received from Stroz and reviewed, what was the time span of
8 those servers? Are you referring to your materials,
9 3500-BP-1?

10 A I am. So, these were servers that we made copies of in
11 March of 2012 so they would have contained data up to March of
12 2012.

13 Q Now, would they have been up to March of 2012 or they're
14 decommissioned servers that were taken offline earlier?

15 A It is my understanding that they were taken offline prior
16 to that time period.

17 Q Now, in your experience -- withdrawn.

18 When you said that you found malicious activity on
19 PR Newswire's servers, can you be more specific about what you
20 found?

21 A Sure. There was back door malicious programs, back door
22 malicious programs placed on the server that allowed
23 individuals to bypass normal authentication methods and have
24 access to the servers without having to authenticate or log
25 into those servers directly.

PADRES - DIRECT - MS. NESTOR

1 Q What do you mean by back door?

2 A So, normally you might log into a system and be presented
3 with a prompt asking for a username and password and have to
4 provide valid username and password credentials. If you place
5 a back door on a system and get it to run, then you access
6 that back door, you can bypass that normal authentication
7 then.

8 Q Were you able to determine whether the individuals that
9 were accessing or compromising PR Newswire used measures to
10 conceal their malicious activity?

11 A Yes.

12 Q Tell us about that.

13 A So, they were able to install applications on the system
14 that allowed them to remove log data and hide their
15 activities.

16 Q Were you able to determine how the hackers gained access
17 to PR Newswire's computer system initially?

18 A So, I was able to see that -- in this April of 2010 time
19 frame that there was an exploit launched against the web
20 servers but the specific exploit that gave them access to the
21 environment, I was unable to determine that and I believe
22 that's because the log entries that would have given me that
23 information were missing and they were deleted.

24 Q Were you able to determine how the intruders actually
25 maintained access to the PR Newswire system after they gained

PADRES - DIRECT - MS. NESTOR

1 access, after the initial intrusion?

2 A In addition to the web-based back doors that were found
3 on the system, we found that they replaced the -- one of
4 these -- there's a program on these systems called SSH. It's
5 a shell program that people use to log into these servers.
6 They had replaced the normal program with a trojanized version
7 of this program that had additional functionality and instead
8 of just logging the person in as normal, it also then sent a
9 copy of that individual's credentials out of the network to
10 the attacker.

11 Q Why would a malicious cyber actor want to steal employee
12 information and login credentials in this way?

13 A It would allow that person to gain access to other
14 systems. It would also allow that person to maintain access
15 to the systems if, in fact, somebody did discover their back
16 door and removed those back doors they would have these valid
17 credentials that they can use to get back into the network.

18 Q Now, you previously testified in March of 2012 you were
19 retained -- while you were at Stroz you were retained by PR
20 Newswire and you installed the sniffer. Did the sniffer alert
21 you of anything?

22 A Yes. In fact, that's how we initially found these
23 credentials being sent outside the network. We were looking
24 at the sniffer data we saw what we thought was unusual
25 traffic. We discovered where it was coming from on several

PADRES - DIRECT - MS. NESTOR

1 systems. We investigated it further and found this trojanized
2 SSH process. Upon further investigation we found that it had
3 this functionality of sending these credentials out. They
4 were encoded so we couldn't initially see them. And that's
5 what sort of led us -- the sniffer data is what led us to
6 discover this SSH program sending out this data.

7 Q Did you determine where the credentials were being sent?

8 A A number of locations. I can remember the Ukraine was
9 one of the IP addresses that the data was being sent to.

10 Q So you were able to determine where the data was being
11 sent based on the IP address?

12 A Correct.

13 Q Does that mean that in March of 2012 when you were doing
14 your work for PR Newswire you saw evidence of intrusion
15 through the sniffer itself?

16 A Yes.

17 Q Were you able to determine whether the malicious
18 intruders were able to extricate press releases from the PR
19 Newswire's servers?

20 A Yes.

21 Q Would you tell us what were able to learn about that?

22 A There were scripts installed on the application server
23 that were designed to query the database, the news release
24 database, for news release data, copy that data from the
25 database onto the application server in a temp directory and

PADRES - DIRECT - MS. NESTOR

1 then send the data to the attacker and then delete that data
2 from the application server.

3 Q Was the data always deleted?

4 A It was designed to be deleted. There were some cases in
5 which the data still remained in the temp directory and in
6 looking at the logs of the script writing we can see that in
7 some cases the files that were being deleted were, like,
8 locked and couldn't be deleted. So in 29 cases, there were 29
9 files still in that temp directly and those files were still
10 there.

11 Q Were you able to determine how many press releases
12 approximately there were attempts to extricate?

13 A Let me see here.

14 Q Are still referring to 3500-BP-1?

15 A Yes. So, because I was able to find these scrips that
16 were designed to copy the data from the database, I also
17 retrieved logs that showed access to those scrips. By looking
18 at those logs I found 43,527 times in which those scrips were
19 called to retrieve press release data from the database.

20 Q During what period of time?

21 A Between July of 2010 and January of 2011.

22 Q Now, you referenced that there were 29 files that were
23 not deleted from the temp files; is that right?

24 A There were 29 files still in the temp directory when we
25 created an image of that system, correct.

PADRES - DIRECT - MS. NESTOR

1 Q What were those files?

2 A They were press release data. So some of them looked to
3 be press releases. Other files just related to press
4 releases.

5 MS. NESTOR: I want to show the witness for
6 identification only and I can do this -- I was hoping I can do
7 this through the binder the witness has Government Exhibit 500
8 through 5026 and 5028 and 5029.

9 Q Do you recognize all of these exhibits?

10 A Yes.

11 Q What do you recognize them to be?

12 A These are the files that were in the temp directly on the
13 application server.

14 Q Did you review them?

15 A Yes.

16 Q Are they in substantially the same condition as when you
17 provided them to the Government?

18 A Yes.

19 MS. NESTOR: Your Honor, at this time the Government
20 seeks to admit Government Exhibit 5001 through 5026 and 5028
21 and 5029.

22 THE COURT: Any objection, folks.

23 MR. BRILL: No objection, Your Honor.

24 THE COURT: Received in evidence.

25 (Government Exhibits 5001 through 5026 and 5028 and

PADRES - DIRECT - MS. NESTOR

1 5029 received in evidence.)

2 Q I'm going to publish 5002 to the jury. Can you tell us
3 what this is that we're looking at?

4 A This is a press release from ACTS Retirement and Life
5 Communities.

6 Q This is one of the press releases that you recovered from
7 the server?

8 A Correct.

9 Q And what is this?

10 A A general dynamics press release. General dynamics is
11 awarded 19 million for Saudi Bank Corp.

12 Q And that is Government's Exhibit 5002. And there are --
13 as you testified, there are about 29 files. Were all of them
14 press releases?

15 A No.

16 Q Were most of them press releases?

17 A Correct, yes.

18 Q Now, you previously testified that you were engaged by PR
19 Newswire in March. Were you retained by PR Newswire at any
20 other point in time?

21 A In February of 2013.

22 Q Tell us why.

23 A They had experienced some difficulty with their file
24 transfer server. Their SFTP server had been crashing and they
25 were asking for help looking into the cause.

PADRES - DIRECT - MS. NESTOR

1 Q What is the SFTP server?

2 A This is the server we were talking about earlier. So
3 it's the file transfer, the secured file transfer server.

4 Q Did you review the SFTP server as part of your work in
5 that case?

6 A Yes.

7 Q And what did you determine?

8 A It looks as if somebody had gained access to that server
9 and was attempting to install a -- an exploit and it wasn't
10 working correctly and causing the server to crash.

11 Q What did you observe about the intruder's activity on the
12 PR's server?

13 A In addition to finding that somebody had gained access
14 and was trying to install this exploit kit to maintain access
15 to the server, we were trying to determine how they even got
16 onto this file transfer server to do that in the first place.
17 It was behind what's known as the VPN. They would have had
18 reversed into the network and they would have done it through
19 a VPN connection. A VPN connection is a way that they can
20 come from outside the network into the network and they were
21 using an employee's credentials to do this.

22 We had suspected that what they might have done is
23 phished or spear phished that employee's credentials and that
24 they were using those credentials to get into the network and
25 then hop over to the FTP server.

PADRES - DIRECT - MS. NESTOR

1 So we took possession of that employee's computer to
2 do analysis of whether or not there was a malware running on
3 that system or if we could find evidence that they were spear
4 phishing that computer's credentials.

5 Q What is spear phishing?

6 A So, phishing is when somebody sends you an e-mail to try
7 to get you to try to click on a link or run a program or trick
8 you into typing if your credentials so somebody can steal
9 those or use those credentials to gain access to the network.
10 Spear phishing is a modification of that which it's more
11 targeted rather than widespread to anybody.

12 Q And you saw evidence of spear phishing during that time?

13 A We did find evidence of spear phishing on that employee's
14 computer; correct.

15 Q What happened after you were able to review that
16 employee's computer?

17 A During that analysis we were told that they had changed
18 the credentials, the password, for that employee and then we
19 needed that. The access continued, but just under a different
20 username. So the attacker switched to a different user on the
21 VPN connection. We then started to take steps to obtain
22 access to that user's laptop to perform analysis of that
23 system. They changed those credentials. The attacker
24 switched to another account and this continued which led us to
25 the conclusion that the attacker had access to a large cache

PADRES - DIRECT - MS. NESTOR

1 of credentials for the PR Newswire in this environment.

2 Q Now, I just want to explain to the jury, what was -- back
3 in March of 2012 and in February of 2013, what was your role
4 in terms of what you were supposed to be doing at PR Newswire?

5 A We were assisting the PR Newswire staff in investigating
6 this.

7 Q What does that mean, you were assisting?

8 A So it was really was their investigation and they would
9 ask us for assistance and look at a particular system or help
10 answer a specific question. There are certain clients of ours
11 where they hand us the entire investigation. They were
12 running it. We were just assisting.

13 Q Thank you.

14 MS. NESTOR: No further questions, Your Honor.

15 THE COURT: Okay.

16 Any questions?

17 MR. BRILL: Yes.

18 (Continued on the following page.)
19
20
21
22
23
24
25

PADRES - CROSS - MR. HEALY

1 CROSS-EXAMINATION

2 BY MR. HEALY:

3 Q Good afternoon, Mr. Padres.

4 A Good afternoon.

5 Q You told us in 2012 you were, working for Stroz
6 Friedberg, correct?

7 A Correct.

8 Q And there came a time when PR Newswire engaged that firm
9 to, I think the word you used was, assist their staff in an
10 investigation; is that fair to say.

11 A Correct.

12 Q Based on information that they obtained from the Secret
13 Service, correct?

14 A I don't recall where they specifically. I think they
15 were working with a couple different agencies, SECE, I think
16 the FBI. I don't recall specifically the Secret Service at
17 that time, but maybe.

18 Q Let me ask it a different way. Did they engage Stroz
19 Friedberg because some investigative branch of the Government
20 had indicated to them that their servers had been compromised?

21 A My understanding is they were given information from the
22 Government about a compromise that led them to start an
23 investigation, if that answers your question.

24 Q Sounds like the answer was, yes. Thank you.

25 You said that your job, was your team's job, was to

PADRES - CROSS - MR. HEALY

1 investigate whether or not there was access, correct?

2 A Whether or not unauthorized access was gained, correct,
3 yes.

4 Q And to determine if possible who was accessing the
5 system?

6 A We were not engaged to determine who.

7 Q What was your second goal?

8 A Scope of compromise.

9 Q Scope of compromise. But you weren't engaged to try to
10 prevent future compromise; is that fair to say?

11 A I'm sorry, your question?

12 Q Sure. Stroz Friedberg, for whom you were working, wasn't
13 engaged to try to prevent future compromise?

14 A No, we were not engaged to.

15 Q You and your company did not design that system, correct?

16 A Correct.

17 Q You didn't maintain that system, correct?

18 A Correct.

19 Q Would you agree with me that there are certain steps that
20 companies can take to secure their data?

21 A Sure.

22 Q Would you agree with me that one of the simplest ways
23 would be to make sure that all security updates and patches
24 are installed?

25 A If you're asking me if all security patches are installed

PADRES - CROSS - MR. HEALY

1 would it prevent all security breaches, then I would disagree,
2 but certainly.

3 Q That wasn't my question. My question was, isn't that one
4 of the simplest ways to help prevent unauthorized access to a
5 system?

6 A It is certainly something we recommend, yes.

7 Q Sure. Is it fair to say that that's relatively simple to
8 do?

9 A No, but it is certainly something that we recommend.
10 Installing security patches can be fairly complicated, can
11 break things. It's something that sometimes people can't
12 update their systems, so they have to do this process we call
13 putting in mitigating controls, but.

14 Q Would you agree with me, sir, that if PR Newswire was
15 running an operating system that had been released in 2003 and
16 they had never installed a single patch or security update,
17 that would be evidence of perhaps a lack of diligence?

18 A I don't know what other controls they would have put
19 around. We didn't look at that.

20 Q I didn't ask if you looked at it. I asked if they failed
21 to did any security patches or updates from 2003 until you
22 walked through the door in 2012, would that indicate a lack of
23 diligence?

24 A That alone wouldn't.

25 Q So you think that would be okay?

PADRES - CROSS - MR. HEALY

1 A That alone wouldn't be enough.

2 Q My question wasn't whether that alone, just whether a
3 failure to do that, sir?

4 MS. NESTOR: Objection, your Honor.

5 THE COURT: In effect it is. Next question.

6 Q When you did your analysis and found that the system had
7 been compromised, I believe you said as early as 2010,
8 correct?

9 A Correct, yes.

10 Q And then I believe you said that through that time
11 through, January of 2011 there had been 43,000 requests for
12 press releases; is that correct?

13 A Press release data exactly.

14 Q But that doesn't mean that they accessed 43,000 press
15 releases, correct?

16 A No.

17 Q Would there -- in your review in your report were there
18 evidence of requests for press release data after January of
19 2011?

20 A If I could review my -- the log data I had only went to
21 January 2011.

22 Q So your review essentially says that after January 2011
23 you have no evidence of, because of the log data you had, any
24 evidence of press release requests after that date?

25 A My review would not have that, correct.

PADRES - CROSS - MR. HEALY

1 Q You said that Stroz Friedberg was called back again in
2 2013?

3 A Correct.

4 Q That was because the system was crashing?

5 A Correct.

6 Q I think you told the jury that the reason the system was
7 crashing is that people were making attempts to get in,
8 essentially in layman's terms?

9 A They were already on the system, but they were trying to
10 elevate their privileges by installing this exploit kit that I
11 believe was causing instability and the crashing.

12 Q Is it fair to say they were not able, since you use the
13 language that you did, that they were not able to install it?

14 A Correct.

15 Q Following the time that you finished, you and Stroz
16 Friedberg, finished your work in 2013, were you satisfied at
17 that point that your team had done what they could to assist
18 PR Newswire in making that system safe?

19 A I don't think that was our role to assist PR Newswire in
20 making the system safe.

21 Q Well, you said that you were there to assist them. And
22 that your role -- is it your testimony that they weren't
23 interested in making their system safe?

24 MS. NESTOR: Objection, your Honor.

25 THE COURT: I don't think he testified to that. I

PADRES - CROSS - MR. HEALY

1 think he testified what his role was. Find the problem,
2 right.

3 THE WITNESS: Investigate, correct.

4 Q You made no recommendations how to solve that problem?

5 A We were not tasked with coming up with remediation plans
6 for their network.

7 Q That would be no then, no suggestions?

8 A I think it would be untruthful for me to say never a time
9 that I ever gave them a suggestion.

10 Q To your knowledge, well, strike that.

11 Were you or Stroz Friedberg ever called back again
12 to PR Newswire to assist their team?

13 A After February 2013?

14 Q That's correct.

15 A There were probably times where we did interact with
16 them, I don't recall specific dates but I believe so.

17 Q When you say interact, were you called back to assist
18 them in investigation?

19 A So there was a time just prior to being hired by the
20 Government, where Stroz Friedberg was asked to assist the
21 Government prior to me being retained as a Crypsis Group
22 employee, so there is that time.

23 Q I'm confused for a moment. Stroz Friedberg was asked by
24 the Government to assist or asked by PR Newswire to assist?

25 A You're right, asked by PR Newswire to assist.

PADRES - CROSS - MR. HEALY

1 Q That was prior to 2017, do I have that correct?

2 A That would have been in 2017, correct.

3 Q Do you have any knowledge of that investigation?

4 A It wasn't an investigation.

5 Q Help me out, what were they asked to do?

6 A I believe it was to, certainly to produce data to the
7 Government, that was one thing.

8 Q That's the data you reviewed?

9 A It includes the data I reviewed, correct.

10 Q Was there other data you didn't review that was produced
11 to the Government?

12 A I don't know.

13 Q Why would you -- strike that.

14 Let's talk about a little about those press releases
15 that you found in 2013. Do I have that correct, the 28 in the
16 temporary folder?

17 A I'm sorry? You kind of mixed two things together.

18 Q Sure. Did you find when you came back in 2013, press
19 releases in a folder that you referred to as a temporary
20 folder?

21 A I didn't find that in 2013.

22 Q You found that in 2012?

23 A Correct.

24 Q You can refer to your binder. This is marked 5001?

25 THE COURT: In evidence, yes.

PADRES - CROSS - MR. HEALY

1 Q Can you look at the title of that press release, can you
2 read that to the jury?

3 A New website offers up to \$100 discount on Apple iPads.

4 Q I'm going to show you in your binder also in evidence
5 number 5023, can you read that headline?

6 A National eagles and angles association will host national
7 launch on 2011 -- January 11, 2011 in New York City.

8 Q I'd like you to refer to what is in evidence as
9 Exhibit 5026. Can you read that to the jury?

10 A United States Mint to launch the 2011 Native American \$1
11 coin in Plymouth, Massachusetts.

12 Q Finally, can you turn to what in evidence as 5017, do you
13 see -- I'm not going to ask you to read the headline because
14 I'm not sure there is a headline. That is what you recovered
15 from the temporary folder?

16 A It is.

17 Q Would you agree with me none of these four documents have
18 anything to do with earnings?

19 A It certainly looks like 5017, it would be hard for me to
20 imagine it has nothing to do with earnings on the face of it.
21 The others --

22 Q United States Mint to launch the 2011 Native American
23 coin?

24 A Certainly based off of the headlines I just read. I
25 would have to read the rest of them to give you an answer

PROCEEDINGS

1 about the contents.

2 Q Finally, would you agree with me, as you told us earlier,
3 since there is no evidence that was obtained in 2011 because
4 of the logs you were provided, that there was any requests for
5 press releases after January 11, 2011, that the date of all 28
6 of those documents are January 11, 2011 or prior?

7 A Can you repeat the question?

8 Q Sure. You told us earlier that there is no evidence that
9 you uncovered in 2012 with Stroz Friedberg that there were any
10 requests for press releases after January of 2011. These
11 press releases that were found in the temporary folder, you
12 can certainly look through them all if you'd like, these press
13 releases are all dated prior to January 11, 2011?

14 A That's my recollection, correct.

15 MR. HEALY: No further questions.

16 THE COURT: Ms. Felder.

17 MS. FELDER: No questions.

18 THE COURT: Any further questions of the witness?

19 MS. NESTOR: No, your Honor. Thank you.

20 THE COURT: All right, sir. Thank you very much.

21 You may step down.

22 (Whereupon, the witness was excused.)

23 THE COURT: We'll call it a day, folks. We will
24 resume at 9:30 a.m. tomorrow morning.

25 Let me repeat my usual admonitions with a little

PROCEEDINGS

1 emphasis, don't discuss this case, folks. When I say don't
2 discuss the case, I don't only mean don't discuss the case and
3 the testimony, I don't want you talking about anything about
4 the case. In other words, when you walk out this door the
5 case doesn't exist. All right. The time of day other than
6 what day you start tomorrow. Please, folks. Because you
7 know, an innocent little comment about something is liable to
8 trigger something else. And like a house of cards, it's big
9 trouble. So please no discussion, whatsoever.

10 Again, you'll pardon my tone, but we're all vested
11 in this case, a lot of time has been spent, a lot of effort,
12 we don't want to jeopardize that. Have a pleasant evening.
13 Get some rest. We'll see you at 9:30 in the morning.

14 COURTROOM DEPUTY: All rise.

15 (Jury exits the courtroom.)

16 THE COURT: Have a seat folks. Counsel come up to
17 the bench.

18 A couple of things, I haven't really had much of an
19 opportunity trying to pay attention to what is going on to
20 review this testimony from last week, but I will do so over
21 the evening break. I didn't get Mr. Brill, who did stand this
22 morning, an opportunity to speak, nor did I give the
23 Government a chance to.

24 MR. BRILL: I'll defer to Ms. Brill to give our
25 position.

PROCEEDINGS

1 MS. BRILL: Our position at this time is the same as
2 the position of the federal public defender. We are at this
3 time requesting at a minimum the strong curative instruction
4 that Ms. Whalen has put forth. But that is our position now.
5 We certainly understand that the Court hasn't completed its
6 review. We've only begun to also absorb the contents of the
7 Government's disclosures.

8 And so, but you asked for the position. That was
9 going to be the position. That's the position we put in the
10 morning. This is a fluid situation. We may have more to say
11 once the Court makes a ruling.

12 THE COURT: You want to add anything?

13 MR. TUCKER: No, your Honor. Simply to say that the
14 reason that Igor Dubovoy was brought back in was specifically
15 was to ascertain the scope of the conduct. The Government has
16 reviewed his testimony. It's the Government's view that in
17 his testimony he admitted to the conduct that defense counsel
18 elicited. The Government standing here today has no reason to
19 believe that Igor Dubovoy perjured himself during the
20 testimony. That's the whole reason we brought him back.

21 Finally, we disclosed what we learned as soon as we
22 learned it.

23 THE COURT: Let me review the testimony. Look,
24 obviously this technical aspect of this case we heard all
25 about all day long, I know their arguments are going to be

PROCEEDINGS

1 made, perhaps there should be some dents in the Government's
2 presentation that the defense can exploit, that's your job.
3 But ultimately I think it's critical, it's the testimony of
4 two or three individuals which is very important. So I take
5 this very seriously, very seriously, which is why I want to
6 read specifically the testimony. I do recall Igor admitting
7 preparation of two or three documents.

8 I'm not as concerned about the points. Stressed
9 somewhat a letter, it's going be apparent a disagreement
10 between father and son as to whether or not the preparation of
11 those documents was ordered as opposed to just done by the son
12 who informed his father. There is a lot of room for
13 misinterpretation and so forth. It doesn't seem to be as
14 black and white as it's been portrayed. It's a serious
15 matter.

16 That said, I don't see any authority, nor so for
17 frankly Ms. Whalen, despite the passionate plea, do I see
18 justification or authority for the relief you seek, either the
19 instruction to the jury or for that matter the striking not
20 only of the witness who we heard from, the witness we haven't
21 heard from. That's not a final ruling.

22 I just wanted to say one other thing. I know this
23 is a complicated case from everybody's perspective. I'm
24 absorbing all this information. I don't envy the charge of
25 the responsibility of the getting the situation to the

PROCEEDINGS

1 defense, the defense digesting it all. I seem to detect a
2 level of rancor and it's distressing me. When you're under
3 pressure and you don't get things when you want to get them, I
4 fully understand the human reaction to that. But I hope we
5 can turn the page here.

6 But in the process, I call upon the Government.
7 You've got to be Cesar's wife here. The folks here are under
8 enormous pressure dealing with voluminous information.

9 One area specifically of inquiry, then I'll let you
10 go, the Latvia situation troubles me. We had motion in limine
11 to preclude any examination. Ms. Whalen in her letter asked
12 the question what was done here. If it's simply a question of
13 asking the witness is there an investigation going, did you do
14 it, yes. There is an investigation, no, I didn't do it,
15 leaving it at that. Or did the Government take the
16 initiative, as I think you would, to get the bottom of it and
17 explore what sources of information are available to you. So
18 we know what exactly is going on. We know the level of
19 falsity, if any, in the witness's claims of not being
20 criminally culpable.

21 I read the Latvian document. It was difficult to
22 read, but one thing is clear, very specific term, a wholesale
23 fraud. The fact that they lost \$100,000 in it doesn't tell me
24 anything. If the fraud was going to net them 5 million, what
25 does the down payment of \$100,000 mean?

PROCEEDINGS

1 I just I want to know that you've done your homework
2 on this Latvia thing that you shared it with counsel. This
3 goes right to the heart of this case. Is the jury going to
4 believe these people? I assume you're going to do everything
5 you can to pull all this technical stuff together, that's your
6 job. I don't want loose ends when it comes to credibility, or
7 short cuts. I don't care whether the witness has already
8 testified, if something was said that relates to the issue of
9 credibility, you walk a higher rope, or least you should be.
10 I trust you're making your efforts to the do that.

11 That's what bothers me more than anything else, what
12 is between the lines here. I know most of you, certainly I
13 know Milly Whalen longer than she would like to admit. I
14 don't want to see the woman as upset as she was. I thought
15 I'd share that with you.

16 I'll review the testimony and have some rulings, if
17 you will.

18 One other thing, if I turn you down on these
19 requests to strike or to instruct the jury on so-called
20 curative instruction, if you want this fellow back, or maybe
21 if you're undecided whether you want him back, tell them now
22 and we can get him back here forthwith. Same thing with
23 Ms. Pierce, although I think that is obviously less of a
24 concern.

25 MS. WHALEN: With respect to Mr. Dubovoy, our

1 position is not to call him back. I don't trust him.

2 MS. BRILL: With respect to Mr. Korchevsky, we are
3 undecided. Awaiting the Court's --

4 THE COURT: I don't want to delay.

5 MS. BRILL: The undecided, your Honor, and I don't
6 mean to sound like you gave a technical way out and I took it.
7 We are planning to going back and come to a final conclusion
8 about that. I can't say if we are in agreement or not with
9 that.

10 THE COURT: I just don't want a delay here.

11 MS. BRILL: That is why if the Court is asking for
12 that reason, then in abundance of caution, the Court should
13 read between the lines. The Government should read between
14 the lines.

15 THE COURT: I want this done right. If you're going
16 to convict these people, you're going to do it right.

17 MR. TUCKER: The Government would make arrangements
18 to bring Igor Dubovoy back in the city to be called quickly.
19 The Government's understands the Court's admonition.

20 THE COURT: Have a good night.

21 (Proceedings adjourned to resume on June 19, 2019 at
22 9:30 a.m.)

23

24

25

I N D E X

1	WITNESS		PAGE
2	SAMAD SHAHRANI		
3	DIRECT EXAMINATION	BY MR. TUCKER	1091
	CROSS-EXAMINATION	BY MR. HEALY	1152
4	CROSS-EXAMINATION	BY MS. WHALEN	1171
5	LOUIS DIPIETRO		
6	DIRECT EXAMINATION	BY MS. NESTOR	1182
	CROSS-EXAMINATION	BY MR. BRILL	1189
7	CROSS-EXAMINATION	BY MS. FELDER	1191
8	ALISTAIR CLARK FERGUSON		
9	DIRECT EXAMINATION	BY MR. TUCKER	1200
	CROSS-EXAMINATION	BY MS. BRILL	1230
10	CROSS-EXAMINATION	BY MS. FELDER	1233
11	JAMES GIMBI		
12	DIRECT EXAMINATION	BY MR. TUCKER	1236
	CROSS-EXAMINATION	BY MR. HEALY	1274
13	CROSS-EXAMINATION	BY MS. FELDER	1281
14	BRET PADRES		
15	DIRECT EXAMINATION	BY MS. NESTOR	1286
	CROSS-EXAMINATION	BY MR. HEALY	1305
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

I N D E X

EXHIBITS

GOVERNMENT	PAGE
408 & 409	1099
411 & 444	1102
413	1106
407T	1108
4541-4544, 4511, 4554	
4592, 4594, 4620, 4225,	
4574, & 4575	1215
802	1221
802-2	1222
4627	1225
711	1252
712	1267
710	1250
DEFENDANT	PAGE
427	1117
405	1119
406T	1122
431, 432, 433, 434, and 435	1126
424	1139
418T and 426T	1141
826	1149
710	1250